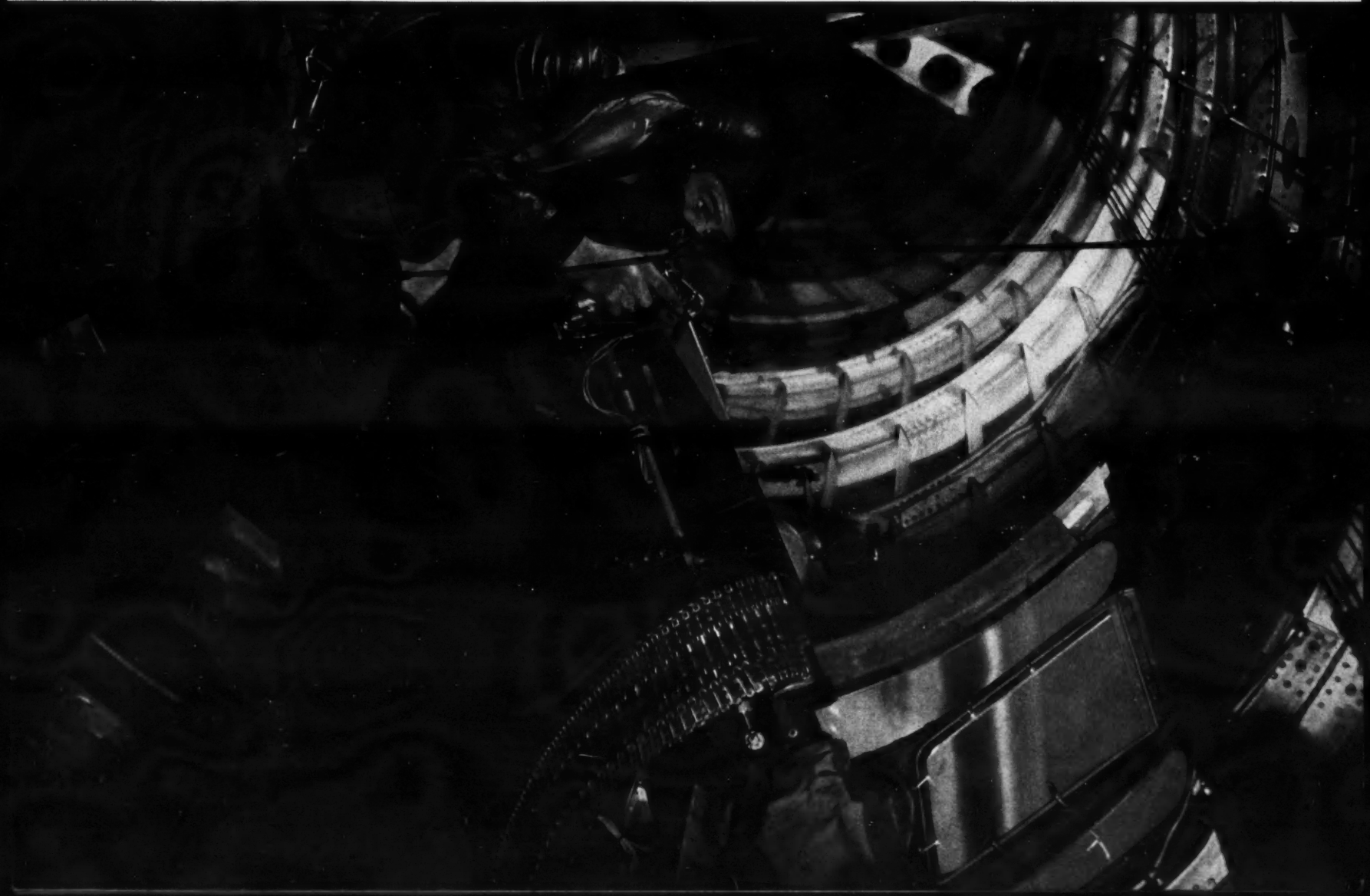
THE 25 CENTS

THE AMERICAN RIFLEMAN

JULY 1945



Peter Peepsight Opens the Night Range!

PETE, MEET HORACE JONES. HE'S ARRIVED FOR OUR OPENING NIGHT TO GET A FEW TIPS. HE AND SOME OF THE WOOD VALLEY BOYS WANT TO WIRE THEIR RANGE FOR NIGHT SHOOTING, TOO!
HOWDY, HORACE. LET'S GO RIGHT OUT! THE SHOOTING'S ALREADY STARTED.
RANGE
I'M ALL IN THE DARK ABOUT THIS!
THEY'RE FIRING FROM THE 50-YARD LINE. WE HAVE A 100-YARD RANGE, TOO.
WISH THERE WAS A 20-YARD LINE FOR ME!
AS CLUB TREASURER YOU SHOULD SHOOT TIGHT GROUPS!
ARE NIGHT TARGETS ANY DIFFERENT FROM DAY TARGETS? AND HOW DO YOU SET 'EM UP AND LIGHT 'EM?
SAME TARGETS, NIGHT OR DAY. THE OFFICIAL N.R.A. THEY'RE SET UP WITH BACKING TARGETS, SPACED 5 FT. APART. EACH TARGET IS LIGHTED BY A 150-WATT PROJECTION FLOOD LAMP SET AT AN ANGLE SO THAT THE LIGHT FALLS ON THE BACKING TARGET, TOO-- ELIMINATES SHADOWS AND LETS YOU SPOT YOUR SHOTS.
SWELL! NOW HOW DO YOU WIRE THE FIRING LINE?
SEE THOSE TWO LIGHTS ON THAT POLE? ONE 12-FT. POLE AT THE 50-YARD LINE, AND ANOTHER AT THE 100-YARD LINE. THAT'S ALL IT TAKES!
THE POLES ARE AT THE CENTER OF THE RANGE AND THE LIGHTS 300-WATTERS!
THE WOOD VALLEY BOYS SURE WILL BE GLAD TO KNOW IT'S AS EASY AS THIS.
WELL, IT'S NOT EXACTLY EASY, BUT WITH A LITTLE HARD WORK IT TOOK ONLY A FEW DAYS TO SET UP OUR RANGE FOR NIGHT SHOOTING.
IF YOU WANT CONSTRUCTION DETAILS AND A WIRING DIAGRAM, JUST WRITE THE RIFLE PROMOTION SECTION OF THE PETERS CARTRIDGE DIVISION.
GOSH! THESE GROUPS LOOK PLENTY TIGHT! WHAT KIND OF AMMO DO YOU BOYS USE OVER HERE?
THAT'S THE $64 QUESTION! WHEN WE CAN GET IT, WE ALWAYS USE PETERS POLICE MATCH* 22S! YOU CAN'T BEAT 'EM FOR ACCURACY NIGHT OR DAY!

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*"Police Match" is a trade-mark of Peters Cartridge Division.

DU PONT

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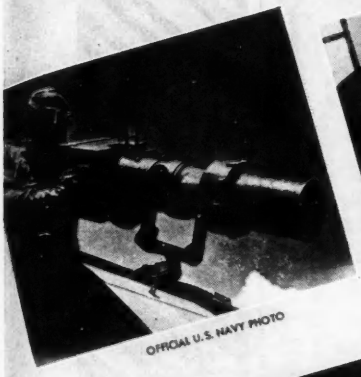

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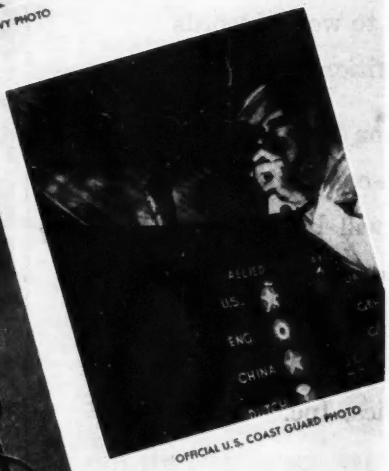

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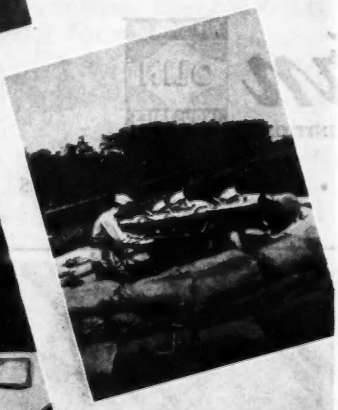

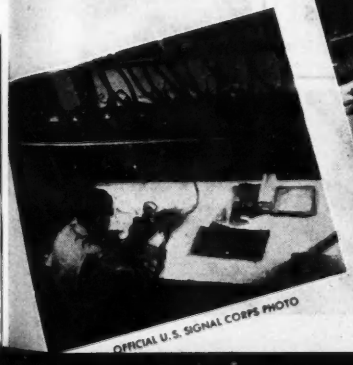

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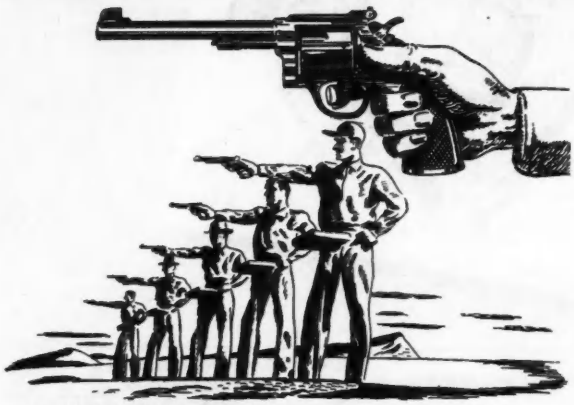
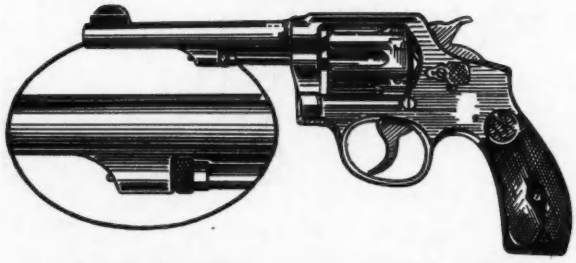


Q: WHAT WAS THE FIRST COMMERCIAL TARGET REVOLVER WITH A "SPEED" LOCK, MICROMETER SIGHTS AND AN ANTI-BACKLASH TRIGGER?

A: In 1940, Smith & Wesson gave target shooters the K-22 Masterpiece Revolver—the first commercially produced target revolver incorporating a short, "speed" cocking action—micrometer, click sights—and a built-in, anti-backlash trigger feature.



Q: WHO BROUGHT OUT THE FIRST REVOLVERS WITH CYLINDER ALIGNMENT DEFINITELY ASSURED BY A DOUBLE LOCK?

A: In 1902, Smith & Wesson developed its famous Second Model Military & Police Revolver in which the cylinder was locked in position at both the back and front, guaranteeing perfect alignment. This feature has since been copied widely in cheap, foreign imitations, but in the field of quality revolvers it is still one of the many exclusive advantages you get only in a Smith & Wesson.

Q: HOW DID "BUFFALO BILL" CODY BECOME A STAR SALESMAN FOR A GREAT AMERICAN ARMS CONCERN?

A: In the summer of 1869, Buffalo Bill went hunting with the Grand Duke Alexis of Russia and took along one of his favorite handguns—a Smith & Wesson .44 American. The Grand Duke was so impressed with its performance that he made a special trip to Springfield, Mass. The result was the .44 S&W Russian Revolver and a 250,000-gun order for the Imperial Russian Army.

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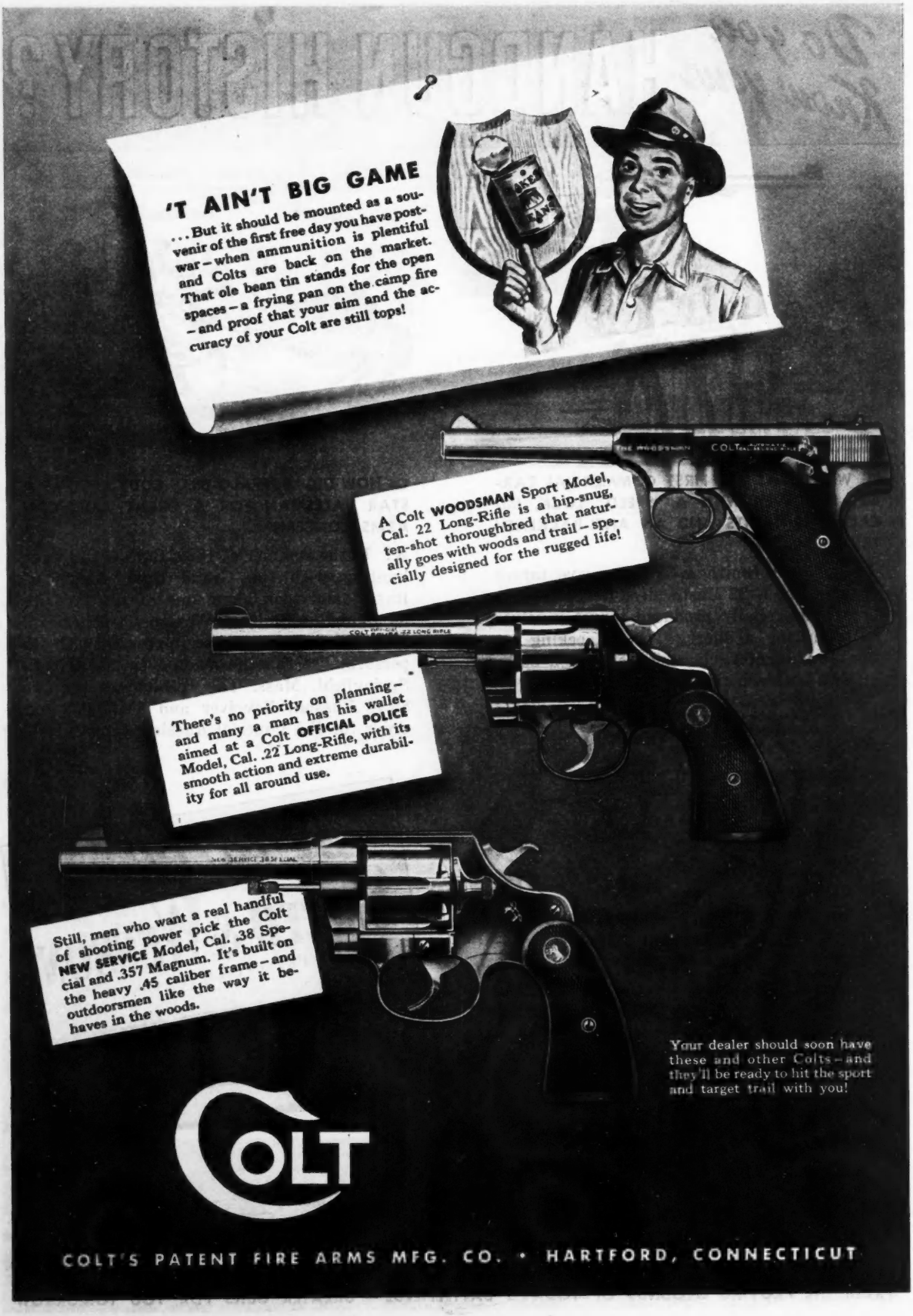
FROM THE PROVING GROUNDS OF TODAY'S BATTLEFIELDS — GREATER GUNS FOR YOU TOMORROW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...But it should be mounted as a souvenir of the first free day you have post-war – when ammunition is plentiful and Colts are back on the market. That ole bean tin stands for the open spaces – a frying pan on the camp fire – and proof that your aim and the accuracy of your Colt are still tops!
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An Editorial

Fog of Words

THE hearings before the House Select Committee on Post War Military Policy developed a fog of words in which the opponents of a democratic system of universal military service lost themselves and frequently traveled in circles.

People who, a few weeks ago, were demanding Congressional action to prevent Americans from being sent into battle with less than one year's training found themselves arguing against one year's training during the only period when there is time to give it.

People who have expressed their great fear of a large American military organization found themselves arguing for a large force of *professional* soldiers, sailors, and marines not only to protect America from all possible aggression but to help police the world as well.

People who have viewed with alarm the possibility of military and naval officers "regimenting" the minds of American youth found themselves calling for the establishment of military training courses in our secondary schools.

People who have cried to the heavens demanding equality of opportunity and responsibility found themselves arguing against the only type of national defense training that applies equally to all the citizens of a democratic state.

The fog producers which received the heaviest workout were the old familiar "Against whom are we arming? If we are sincere in our efforts to end war we are hypocrites to prepare for war," and the newer "If we adopt a system of universal military service we will offend Russia."

Surely only people completely lost in mental fog could seriously advance these arguments because (1) We are arming against *no one* when we provide a sensible, democratic military training system to prevent aggression against the United States and to avoid the useless slaughter of American men while others try to train behind the battle lines. On the other hand we are arming for protection against *anyone*—and we do not need to apologize for that! (2) Being sincere in the effort to end War does not necessitate emulating the philosophy and fate of the Chinese. We tried the noble example system after World War I. The history of mankind proves beyond argument that unpreparedness begets aggression and encourages little men to foment great wars. (3) Russia is a nation controlled by realists. Russia distrusts if she does not despise the weakling. Russia has universal military service and, even now, is training her fifteen- and sixteen-year-olds for military service to protect herself. It is childish prattle to say that Russia will respect us less or distrust us more because we, too, take reasonable steps to protect *ourselves*.

May the fog of words be promptly dissipated by the cool breeze of common sense!—C. B. L.

The AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America

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God Speed

By BERT POPOWSKI

I'VE HUNTED WOODCHUCKS in the clover-carpeted meadows along the Des Moines river, in the limestone bluffs of South Dakota's Black Hills, and in stone-walled New England fastnesses, but it took a father-and-son fishing trip in southwestern Montana to show me the Happy Hunting Ground for chucks.

You think a fishing trip is a funny setting for a woodchuck hunt? Well, it happened thus:

John, aged thirteen, and I had driven twenty rugged miles before daybreak, and started walking in to what had been described to us as a trout paradise. I got a real kick out of that walk. John led the way, carrying our cased fly rods; and, since a part of this vacation had been devoted to woodcraft, he carried also a small but very sharp knife with which, every fifty yards or so, he clipped the tip of an evergreen branch and dropped it in the trail. That was to enable us to backtrack safely. Watching him swing along before me, sun-browned and self-reliant as an Indian, filled me to the brim with paternal contentment. It was a feeling I was to find strengthened as the day progressed.

The trail climbed steadily. We'd have to do some climbing to top out at 9,000 feet, before dropping down the opposite slope to the mountain-rimmed lake which was our destination. The air had that winy tingle of early morning in the high places and we breathed it in the deep lungfuls induced by our climb and the high altitude.

We'd stopped to rest on a fallen tree, watching the rising sun pry into the timbered slopes across the valley, when a slight rustle of pine needles drew my attention. A roly-poly, reddish-furred critter half-rolled, half-galloped downhill a dozen feet before thunking solidly into a den, neatly hidden in a clump of ground cedar.

The Woodsman slid out of its holster on my hip with a leathern whisper and the safety sounded its metallic warning. John, old-timer at this business, sat in rocklike immobility. Nearly five minutes dragged by before the cedar branches stirred again and parted to disclose an upthrust head whose beady eyes inspected us.

The pistol had come to bear with the first tremor of the branches and now its roar smashed the morning silence. Echoes came rolling back to us from a hundred reflecting rocky surfaces, and the chuck catapulted into the open, thrashed briefly, and was still.

"D'you suppose there are more of them around?" John whispered.

"I suppose you'd better drop back and get the rifle in case there are," I said, thinking that the little Model 57 would add little to our packs and that we might get a shot now and then between bouts with the trout.

As he dropped rapidly down the back trail, I started on a little tour of exploration. The slope was literally honeycombed with chuck dens. Polished openings led under rock slabs, amid the gnarled roots of pines and spruce and aspen.

John's whistle called me as he came upon the handkerchief I'd tied to a trail-side branch, and I rejoined him in a matter of minutes. We climbed the long trail to its top, then slithered down the last half mile to where the lake lay in the long early morning shadows.

The creel at my hip yielded a coffee can with a perforated top which pinged repeatedly from inside blows. It held the grasshoppers we'd painstakingly collected from a lush alfalfa field in the foothill flats. I hung our packsack on the dead limb of a giant pine, and I helped John tie on six feet of wispy leader, ending in a tiny Number 8 hook which would camouflage neatly against one of these big, luscious, yellow-bellied hoppers, and showed him how to pass the hook under the insect's "collar." A split BB sinker

took it down, and within an hour we had a full half-dozen trout.

We built our small fire of tinderlike pine branches snapped from a jack-pine thicket; built it in a rock crevice within a yard of the water's edge, after scraping back the carpet of pine needles down to the naked soil. We split two trout and brewed tea while the fish cooked slowly; then sat together and ate and watched the sun come peeping through the pine tops on the far hill. It was a moment to remember!

A piercing whistle sounded from the slopes above us and John's eye flicked upward—then back at me. I nodded and he finished his breakfast in a greedy gulp, scraped the remnants of our fire into the lake—and was ready. . . . Well, so was I. The fish could wait.

Another whistle halted us before we'd gone a hundred yards. John slid the rifle forward smoothly as he dropped to his knees. The bolt snicked as it thrust a load into the barrel. A brown head popped up above the rocks ahead of us—the rifle swung—and then came slowly down again. John turned a sheepish grin back over his shoulder.

"Too close," he said. "It's only thirty yards or less. No sport in that."

The woodchuck got his fill of us and ducked, whisking himself out of sight like magic. But John's eyes had already caught another movement farther off—a fine, fat, grandfather chuck climbing sedately up to where the sun lay warmly on a flattopped rock.

"That's about right for a dead-center hold," I murmured. "Hold right on the point of its chin and touch 'er off."

John squirmed around so he could rest the forearm atop his hand where it rested against a trail-side pine. The chuck was nervous. He bobbed up and down several times and John waited. The crack of the rifle whiplashed the echoes—and the chuck was gone—unhit. John turned a puzzled face at me.

"I held right on him, Pop," he said. "And it was a good shot."

Then I remembered that we'd zeroed that rifle at an altitude of under 2,000 feet. An added mile of altitude might account for that miss. I squirmed down on my belly and laid three shots at a tiny white fleck on the face of a granite slab. Sure enough, the lead spatters formed a triangle nearly two inches high, at a range comparable to John's shot at the chuck. Rather than rezero the scope, I pointed out the amount he'd have to hold under the mark to hit at a similar distance and we went on.

A moment later that chuck, or another, waddled ponderously to the top of a rocky slab, downslope from us. This was no thirty-yard "cripple"; it was a long shot, and I watched John make himself comfortable. There was no appreciable breeze on the hillside; it was merely a matter of proper elevation.

Twice, unable to get his shot off, he released a lungful of air and tried again. When he did pull, I distinctly heard the resounding "whock" that marks a clean hit with hollow-point ammunition. And I was right. John retrieved that chuck by its stumpy tail and we examined the hit—a bullet hole high enough on the shoulder to mean a broken back. John's face glowed with satisfaction as I refilled the clip.

"Looks as if we'd have to leave the trout until another day," I suggested.

"Can we do that?" eagerly. "We could camp down there tonight and get a good catch in the morning and be back tomorrow evening. Could we?"

Well, why not? The boy had never spent a night out under the stars at an elevation of better than one and one-half miles. We had a pair of Hudson Bay blankets apiece in the car, a couple of folding cots, and enough camping equipment so we could live like kings off the trout we caught. And the bite of that thin air at this altitude would be an experience he would never forget and never underrate.

So, we lined the creel with horsemint, cleaned and stowed six fat trout in it, and started up the well-worn game trail that led toward rimrock, some 2,000 feet above us. We traveled leisurely, killing two more chucks on the way, the last a hoary oldster that was beginning to silver in the hair that ringed its muzzle and its ears.

When we emerged atop the ridge we could see chucks all around us. I shed the packsack and the creel in the shade of a convenient pine and we bedded down beside a huge splinter of upthrust granite. A few minutes' wait produced a long shot, at an angle fully 45 degrees below us. John larruped away twice at that chuck without hitting it, though the bullets howled viciously off the rock on which it lay. The chuck spun like a pin wheel at each shot, puzzled, angry, trying to locate the howling pellets.

Then I took three shots with the Woodsman to kill one at fifty yards at about the same angle and suddenly I understood John's difficulty. He had been overshooting and probably miscalculating the range. Not realizing that the downward angle required less elevation than a horizontal shot, his bullets were probably just outside the margin of his target.

We checked on that on the next chuck and, sure enough, John's shot brought the target rolling out of cover with as neat a head hit as we'd had all day. John chose another old settler and that chuck, too, barely *(Continued on page 13)*

Stoutsenberger's own sketch of the three-man team in the waist section of the Liberator during the furious action of the Markersdorf mission.

CLAY PIGEONS that SHOOT BACK

By LEO STOUTSENBERGER, USAAFR

WHEN THE EVENTS of this war become masses of type on the countless pages of history, the work of the aerial gunner should occupy an important place in the chapter devoted to the great Allied Air Offensive. The most casual observer of present-day military operations knows the long-range bomber is primarily a weapon of attack—a lethal weapon designed to deliver destructive blows at enemy installations on the ground. But the very nature of the bombing plane makes it highly vulnerable to attack. The great distances traveled by Liberators and Fortresses to targets deep within alien territory make it impossible to cover their sorties with fighter escort. So the job of protecting the big bombers falls to the aerial gunner who lives and fights within the ship's steel body. The gunner is a flying bodyguard—as integral a part of the crew as the pilot, the navigator, and the bombardier.

Someday, perhaps, whatever remains of Marshal Goering's once-vaunted *Luftwaffe* will grudgingly admit that the rapid decline of the Nazi's Air Arm during 1944 can be attributed in large measure to the intensive training and the resulting deadly accuracy of the young American riflemen who crouched behind their single or twin .50's in the turrets and at the open waist ports of Uncle Sam's bombers.

My job as an aerial photographer-gunner is to record graphically the effects of our strikes and the effects of the enemy's counterpunches—and to take over a gun in emergencies. In this light, then, I feel I can speak in a more or less detached way of the fiber of these marksmen who pit their wits and specialized shooting skill against the best fighter pilots the Germans send out to intercept us.

And when I say specialized shooting skill, I mean just that. Because if a man can't shoot after the training he gets in our Air Force gunnery schools, he simply lacks the eyesight, physical co-ordination, or whatever it takes to be a shooter—and if he lacks that, he doesn't end up as a gunner.

Preliminary training is with the rifle. Most Air Gunnery schools start their work with the .22's—work up from those to the .30 calibers. We got dry firing first; then hundreds of rounds of range firing, at fixed and moving targets. Next comes a very thorough and intensive course in aerial gunnery, firing at first from a truck with regular skeet guns. The truck rolls along at fifteen miles per hour and each man fires thirty-two shots at clay pigeons hurled from the trap shacks. If he's good, he'll hit twenty-five out of thirty-two. Even while the gunner is overseas flying his regular combat missions, he must keep in practice and when he isn't flying he works out in the turrets which the bomb group sets up for that purpose in the building called the bomb training building. In this building are also installed Link trainers and bomb trainers for the pilots and bombardiers.

Then there is actual firing in the air for air gunnery timing at the cotton-covered wire tow sheet called the sleeve. The sleeve is usually ten feet by three feet and is towed by another airplane. The gunner's hits are scored by having the bullets first dipped in colored lithographic ink. Each gunner has his own color ink and so each gunner's hits are easily identified. A good gunner will get fifty hits out of 200 shots at the sleeve. All hits are circled in black as they are scored and the targets are then used over and over again.

Even though slated early in my training period to be a photographer, I had to go through the "firing mill" as intensively as the others. For months we burned up so much powder I began to be afraid there wouldn't be enough for the boys who were really slugging it out at high altitudes with the Krauts. But before many more weeks had passed, I had a close-up look at the whys and wherefores of that relentless grind of pounding away day after day at clay pigeons, towed sleeves, and rolling dummy fighters. Then I thanked God for the tough gunnery sergeant who made us do it "over and over again 'til you get it right!"

Of my fifty combat missions, thirty-seven were under vicious attack by Nazi fighters, but one mission in particular stands out in my memory. We were raiding the Markersdorf Aerodrom near Vienna. We were within a minute or two of starting our bombing run on the target, when a mixed squadron of FW 190's and 200's roared in on us out of a heavy cloud bank. They came in very fast—and if the *Luftwaffe* was running short of experienced pilots, it must have been in some other theater of operations because they struck from the nearest thing to a blind spot a Liberator has, and they were plenty good! They winged over as they flashed by and poured a stream of incendiaries from their 200 mm.'s which raked us from "greenhouse" to "privy."

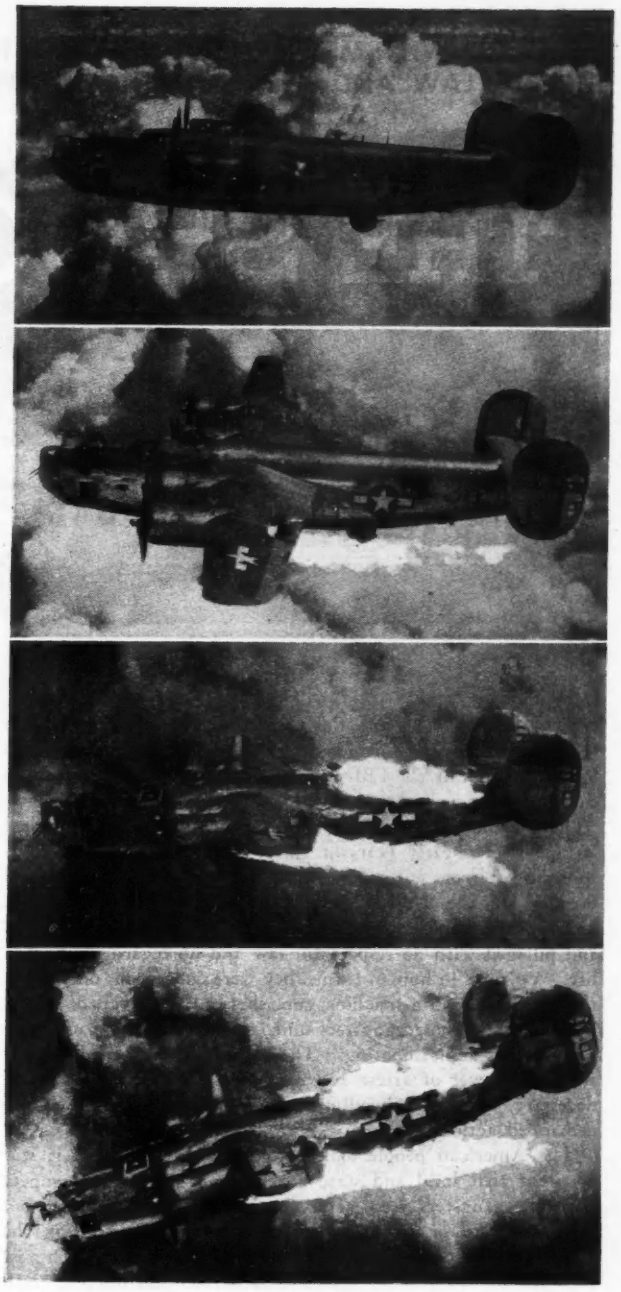
My first impulse was to become violently sick. For a few moments I was completely gripped by fear, almost to a point of being paralyzed. Fortunately, this initial stage passes, along with a gallon of perspiration, and the average airman seems to become calmly deliberate, functioning mechanically. It was then that I began to observe my buddies' reactions to the intense nerve strain and the fury of the enemy's fire.

Many things were happening indescribably fast. The Jerries seemed to be attached to spokes, whirling madly around us with our ship the hub. As they flashed past our waist windows, Tom and Blinky blazed away at them. Tom was a good gunner; he shot by the rule book. Blinky was a cunning hunter; he used some pages from the book and stuck in some paragraphs his rifle-and-shotgun-shootin' Oklahoma pappy had made him learn. He led two of those "supermen" in and let them "walk into his fire." Blinky didn't believe in throwing a lot of lead; his technique was to put one solid burst where it would do the most good—or harm, depending on which way you saw it.

He didn't do a fancy hemstitching job on the wings or bodies of either of his "pigeons." He merely removed the plastic cowling—and, incidentally, the pilot's head—from Number One fighter, and knocked the prop and most of the engine off Number Two. It was enough, in both cases. After that, Old Man Newton's law of gravity did the rest.

The noise of a fast and furious air attack is something which cannot possibly be put into words; but through it all you are conscious of many other sensations—the vibration from the four straining motors; the violent pitching and lurching of the ship as she takes direct hits; the pungent smell of burned powder. Over all this is an almost overwhelming feeling of utter helplessness and despair.

When this attack started, I was lucky enough to be at the right waist window with my K20 camera cocked and ready. The interphones became fairly jammed as gunners from every position on the ship called out the fighters as they swept in on us. Our Number Two ship, flying on our right wing in the formation, was the first one I saw hit. At the first sight of fire coming from the plane, I started taking pictures. It made



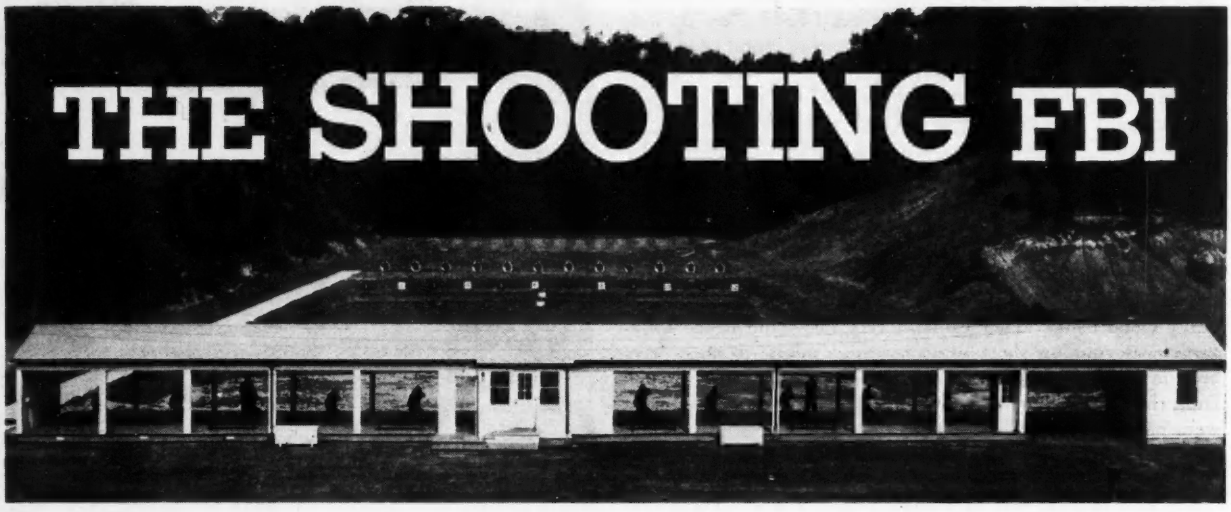
Stoutsenberger's camera caught this remarkable sequence as the bomber next to his "caught it" over Markersdorf. Picture at top shows first bloom of fire after German flak pieced the wing fuel tank. Picture below shows hole in wing, and fire licking back along the fuselage. Pictures three and four show the spread of the fire as the ship noses down.

me feel like I was doing something terribly wrong, watching my buddies dying and coldly photographing them, not being able to be of any help. But that was one of the things I was there to do. . . .

Our own gunners were filling the air with lead. The plane on our right was completely engulfed in (*Continued on page 30*)

THE DIRECTOR OF THE F.B.I. SHEDS SOME LIGHT ON WHY MEN OUTSIDE THE LAW HAVE COME TO FEAR FEDERAL LAW AND THE STRAIGHT-SHOOTING MEN WHO ENFORCE IT

THE SHOOTING FBI



By J. EDGAR HOOVER

LAW ENFORCMENT OFFICERS without guns in this modern day would seem paradoxical, yet not so many years ago Special Agents of the FBI were without statutory authority to carry weapons.

Then came the "Bloody Thirties," when gangsterism reached its apex. The early years of this era saw gangs of hoodlums spreading terror with flaming guns across the length and breadth of the United States. They committed murders, kidnappings, bank robberies, and gang killings. They robbed and pillaged with no respect for law and no regard for human life. Vultures in human form, they were courageous only when they stood behind a machine gun, shotgun, revolver, or pistol. The only law those gangsters understood was a law backed by guns and straight shooting. The country needed men clothed with the power of arrest and men who could shoot it out, if necessary, with those hoodlums. Citizens became incensed and demanded action.

The American people looked to Congress to act as it was apparent that local and state governments could not compete with the gangsters who, after committing a crime, fled from state to state or in many instances from one end of the country to the other by train, plane, and automobile. Congress took the needed action by passing new laws and putting teeth in old laws in the spring of 1934.

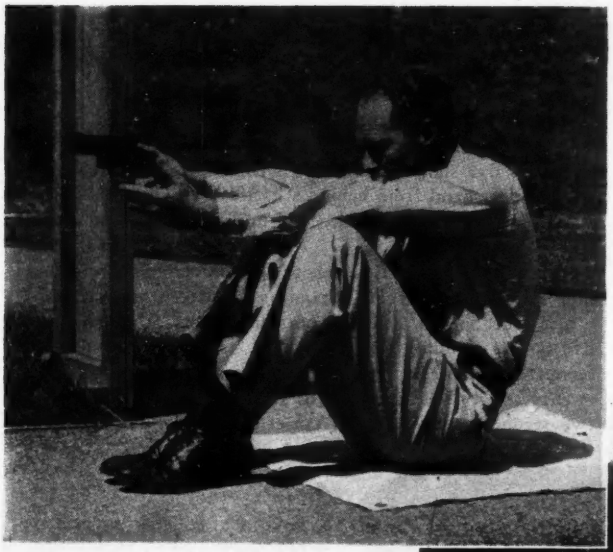
The months of May and June, 1934, are red-letter months in the history of law enforcement in the United States. On May 18, 1934, Congress passed an act providing punishment for the killing or assaulting of Federal officers, and on that same date a revised kidnapping statute was approved. Soon other laws relative to assault, bank robbery, and interstate flight to avoid prosecution came into being. On May 22, 1934, the National Stolen Property Act was enacted and on June 18, 1934, Congress empowered Special Agents of the Federal Bureau of Investigation to carry firearms and make arrests.

This series of laws spelled doom for the flourishing gangsters. The Federal Bureau of Investigation immediately inaugurated a special firearms training program for its agents. The best available weapons were selected and the finest firearms experts in the country began teaching the Special Agents of the FBI how to draw guns rapidly and shoot straight. The lessons learned by FBI agents during those early years proved their worth and turned gangsterism into a dangerous and extremely unremunerative "calling."

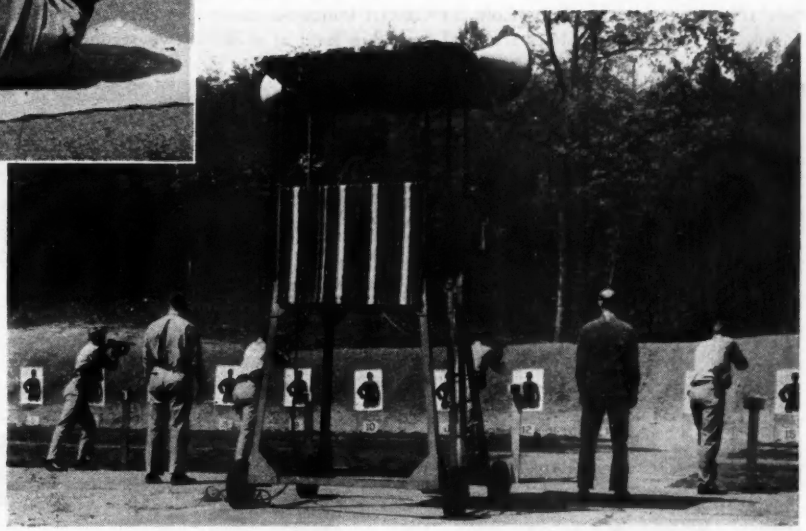
The FBI adopted as its official handgun a .38 caliber revolver which is issued to every Special Agent of the FBI on his first day in training school. A great portion of the work of Special Agents involves cases in which firearms are unnecessary, yet it is important to have a gun which can be carried inconspicuously, of light weight, and yet with plenty of power. In most of the cases in which firearms are needed by agents they are used at close range, usually ten to twenty-five yards, and for that reason it is not necessary to carry guns with a long range.

There are cases, however, in which rifles, machine guns, and shotguns must be used and, therefore, all agents are trained and must qualify with an average of 85 per cent or better with the repeating shotgun, a .30 caliber rifle, a .45 caliber machine gun, and the .357 Magnum revolver in addition to the .38 caliber revolver.

Hoover insisted that teeth be put in federal laws, that federal agents be allowed to carry weapons.



A Special Agent fires the .357 Magnum from a sitting position on the practical pistol course. Agents are issued .38 Special revolvers; may carry sidearms of their own choosing; use the .357 Magnum for special duties.



Agents training with Thompson submachine guns on their fine range at Quantico. Expert with all weapons, backed by the finest labs and laboratory technicians, these men are equipped to prove "Crime does not pay!"

Each field office keeps a number of .357 caliber Magnum revolvers. The estimated effective range of this gun is 200 yards, while its maximum range is 2,700 yards. Because of its terrific power, it is used only in emergency cases when maximum penetration or shooting force is required. The powerful penetrative effect of this gun can be more fully understood when it is realized that a bullet fired from it will pierce an automobile's structure.

An excellent example of the use of the .357 caliber Magnum revolver occurred in a case handled by the FBI in Mississippi several years ago. At that time two FBI agents were in pursuit of two bank robbers who were shooting at the agents. The agents had fired their service revolvers at the back of the fleeing automobile with no effect. These two agents had been practicing with .357 caliber Magnum revolvers that morning and, therefore, had them in the glove compartment of the car at the moment. As soon as it was realized that the service revolvers were having no effect upon the fleeing car, the Magnum was used and one shot from this gun penetrated the trunk, the back seat, the front seat, the driver, and the steering wheel of the car they were pursuing. The driver was killed instantly and the automobile wrecked.

With respect to rifles, the FBI first used the .30-'06 rifle because it had been proved satisfactory by the military forces for long-range shooting and because cartridges were readily available. Experience over the years, however, taught the FBI that this gun was too powerful for the work at hand and, therefore, a .30 caliber rifle with an estimated effective range of 300 yards was adopted. A rifle of this kind can be used with much effect in the western states and mountainous country where, in trailing a fugitive, it might be necessary to shoot at 200 or 300 yards. The rifle in use at the present time by the FBI is a .30 caliber autoloading rifle which is light in weight, easy to carry, accurate, and a powerful weapon, having a muzzle velocity of 2,250 feet per second.

Another gun used by the FBI is the 12 gauge, cylinder-bore, repeating shotgun. This gun was very effectively used by an agent in recent years when standing at the bottom steps in the house of a fugitive. The fugitive suddenly darted down the steps and snapped a .45 caliber Colt in the agent's face. In his desperate hurry, however, the fugitive had thrown the cartridge out of the barrel in his attempt to cock the weapon and, therefore, the agent's life was saved. The agent immediately fired the shotgun and at that close range the fugitive was killed instantly.

The Thompson submachine gun is an additional powerful weapon used by Special Agents. This gun has an effective range of 100 yards, and on full-automatic fire will shoot at the rate of 600 shots per minute. The FBI has adopted the box-type clip for use with this gun, as the clips are easy to carry and have thus far served all purposes necessary in Bureau work.

To make each man in the FBI service superior to any opponent in speed and accuracy, an exacting program is followed. For this purpose, outstanding experts in the field of firearms are on our staff. These men have for many years made a study of the art of shooting under every conceivable circumstance. Under these instructors, officials and Special Agents learn quick, straight, and accurate shooting. The training is based on the knowledge that an agent's life, as well as the lives of his fellow agents, might some day depend entirely upon his ability and skill in handling a revolver, a rifle, a machine gun, or a shotgun. Hours are spent learning the mechanical operation of these guns in order that the individual parts of each gun, and their particular functions are thoroughly mastered. The more knowl-

edge an officer has concerning the gun he carries with him, the greater respect he has for that gun and its danger. Such respect lessens the possibility of accidents to himself and to others.

Before an agent is permitted to shoot on the range, he is given a course in sight alignment and dry firing. Sight alignment is, of course, essential to good shooting. Through dry firing, the agent becomes familiar with the firearm he is to use, and learns the "feel" of the gun properly seated in his hand or against his shoulder. In addition, he learns the all-important factor of "trigger squeeze." By the time he is ready to go up to the firing line, he knows his weapon and how to shoot it.

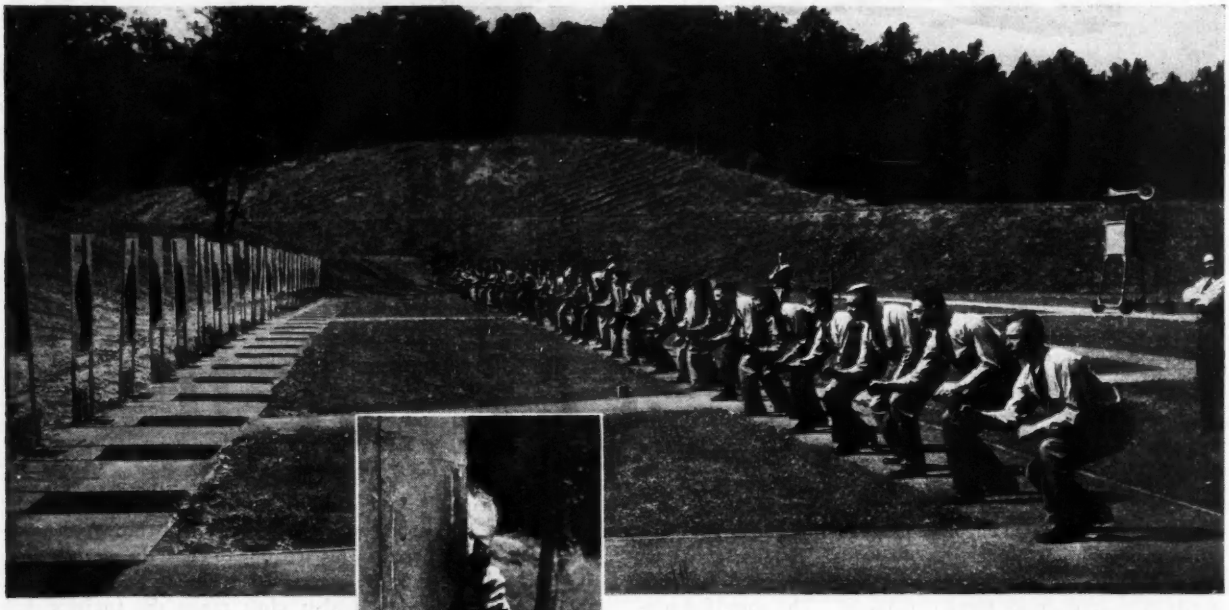
The actual training consists of firing designated courses with each type of gun. The practical pistol course consists of fifty shots, and is designed to cover as many situations as possible under which the agent may have to shoot. For this course, a Colt silhouette target and the Colt .38 Official Police Revolver are used. The first ten shots are fired from hip level at a distance of seven yards from the target. Upon command, the gun is loaded with five cartridges and is holstered immediately. When the men on the firing line have all loaded and holstered their guns, the second command is given at which time the guns are drawn and fired from hip level without aiming. As soon as the first five shots have been discharged, the empty cartridges are taken out and five live cartridges are inserted and fired into the target. The over-all time for the firing of these ten shots, including unloading and reloading, is twenty-five seconds. The remainder of the course takes five and three-quarters minutes.

At the sixty-yard line, the Special Agent shoots five shots from a prone position. The shooter then moves to the fifty-yard line and shoots five shots sitting, five shots prone, five shots from behind a barricade with his left hand and five with his right hand. Moving rapidly to the twenty-five-yard line, he shoots five shots sitting, five with his right hand, and five with his left hand from behind a barricade. The total K-values given on the target are added and multiplied by .4 to arrive at the score.

The shotgun course is ten shots fired on command with buckshot at a bobber target. Standing at fifteen yards from the target, the Special Agent shoots five shots from the hip at five targets standing four feet apart. Then five shots are fired from the shoulder at five numbered targets standing ten, fifteen, twenty, thirty, and forty yards from the shooter who is given two seconds to fire at each target, after its number is called. Each "hit" counts ten. The scope equals the percentage earned.

The .45 caliber Thompson submachine-gun course consists of forty shots fired at bobber targets. At a point fifteen yards from the target, five shots are fired single fire, and five shots in short bursts, on command, from the hip. At a point twenty-five yards from the target, using two clips containing ten cartridges each, the Special Agent fires ten shots single fire and ten shots in short bursts from the shoulder. These shots must be fired in twenty-five seconds which includes the time necessary for removing the first clip and inserting the second. At fifty yards, ten shots are fired from the shoulder single fire. Each hit has a value of two and one-half points.

The .30 caliber rifle course is composed of twenty shots on silhouette targets. Five shots are fired from a prone position and five from a sitting position at 200 yards. At 100 yards, five shots are fired from a standing position and five are fired from a kneeling position. The 200-yard course is a Slow-Fire course whereas the 100-yard course is a Timed-Fire course. At 100 yards, the shooter starts with a loaded weapon and must finish all ten shots in one minute including reloading. The



Agents are taught to draw fast and shoot straight without need of sights, crouching as they advance and shoot, to offer the least possible target to enemy guns.

The handgun course provides barricades simulating actual combat conditions and men are taught to shoot with either hand to enable them to take advantage of any cover. Note size of target offered here.

total score of the twenty shots equals the percentage earned.

In addition to the courses which have been described, a course in hip shooting is given, patterned after the first ten shots of the practical pistol course. The entire course is fired on command, starting with twelve shots fired singly, twelve shots fired two in succession, six shots in groups of three, six shots singly, four shots in groups of two, and then ten shots in groups of five under the same conditions as described at the start of the practical pistol course, making a total of fifty shots. The course is fired on a silhouette target and each shot in the black has a value of two.

The care of firearms used by FBI personnel is rigidly stressed so that weapons will be available immediately when needed. Each time a gun is shot, it is thoroughly cleaned and oiled. Before placing the firearm in the gun vaults, the tension on firing mechanism, hammer, and recoil springs is released. No dust, rust, or corrosion is permitted in the barrel or on the outside of any weapon. These rules are strictly followed whether an agent uses a personally owned firearm or one issued to him.

During all firearms training, absolute adherence to all safety rules is required. The basic principle of range safety rules is that an agent must determine whether or not a weapon is loaded when it is picked up or laid down. No weapon is ever loaded on the range unless it is on the firing line with the muzzle pointed down range toward the targets, or at a forty-five degree elevation. Revolvers must remain in their holsters unless the shooter is on the firing line, and then may be drawn or loaded only upon the command of the range officer. Talking is not permitted between agents standing at the firing line unless the person speaking is the range officer or is coaching the shooter. If it becomes necessary for an agent to proceed from the firing point to the targets, he can do so only upon the command of the range officer who first instructs all shooters to unload and lay down or holster their weapons. Care is also taken to remove any objects immediately behind the target area which may cause a bullet to ricochet. Carelessness or thoughtlessness of any kind is not tolerated on the firearms range.

Not only is each agent thoroughly schooled in every phase of firearms training, but he is also required to maintain marksmanship qualifications through regular monthly practice. Special Agents are prepared and ready at all times to protect society from criminals who defy the laws of order and decency.

Through intensive, thorough knowledge and training, a Special Agent is master of the situation when he stands face to face with a criminal. His training is a part of him and his reflexes become automatic as he goes into action. There is a sure, cool steadiness about his motion when the time comes for him to put into practice the training he has received. ♦ ♦ ♦

THE COVER

Our cover this month pictures a waist gunner in a Liberator bomber. See "Clay Pigeons that Shoot Back," in this issue, for a story about these flying marksmen.

An official USAF photo, taken by Karl Gaston, with Strategic Air Force in England. Made with a 4x5 Speed Graphic (5"-focus Ektra lens), setting F.8, at eight feet, open flash, on Kodachrome Daylight. Camera was set on tripod, lens open, with two synchronized flash bulbs, one on camera shooting in, one at upper left.

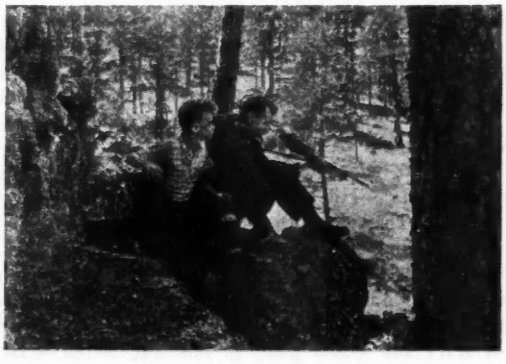
God Speed the Day!

(*Continued from page 7*)

twitched as the hollow point announced a good dead-center hit.

And then we saw a thing a man might not see in a whole lifetime of hunting. I was just drawing down with the Colt on a fifty-yarder when a shadow sped over us, accompanied by the unmistakable tearing sound of a swooping bird. I looked up just in time to see a golden eagle check its headlong speed and pounce. A chuck far down the slope spun to dodge that diving fury, but he was too slow. The eagle struck.

For a few seconds, the bird's wings thrashed violently as it sought to clench its murderous talons through the rodent's vitals. Then one foot left the soft, yielding carcass and the bird stood up, staring defiantly upslope at us. And we stared back. For half an hour we took turns watching the bird through the rifle scope. But it was well aware of us and wouldn't feed. Other chucks raised a crescendo of sound on that peaceful hillside, but the eagle ignored them, fixing his attention unerringly on the one thing dangerous to him. He'd made his kill; was arrogantly unwilling to leave it. But the fear of man won in the end and he took wing at last, spiraling up and up, until he was a mere pin point in the searing brightness of the mountain sky.



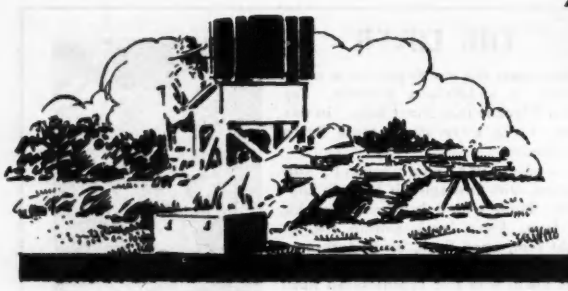
"That was really something to see," John said, as we gathered our equipment and I hauled out a chocolate bar apiece to munch against the hike back to the car. "I was with you when that sharp-shinned hawk killed a pheasant hen in flight, but I never saw an eagle do its stuff before."

Then his mind jumped to the morrow. "Boy, we'll certainly get into those cutthroats in the morning!"

I grinned. "The only way we'll do that is by leaving both guns in the car," I said. "We won't fish if we can shoot! . . . But right now we'd better hump ourselves or dark will catch us in the valley."

That evening as we ate fried trout beside a cheery fire of pitch pine, we rekilled every chuck taken on that bonanza hillside. It was a fine day. . . .

Someday, that boy and I are going to be back to those craggy fastnesses. I've a notion that it will be during the big-game season when we can scramble over them in search of elk. Or—we might even lift our sights a bit higher and try for bighorns or for sheep. The boy's a good companion. When this damned war is over, we'll be going a lot of places together. God speed the day! ♦ ♦ ♦



This Business of Flinching

By LT. COL. WALTER STOKES

FLINCHING MAY BE DEFINED as a wave of anticipatory muscular contraction accompanying trigger release, of sufficient intensity to disturb aim. The chest and shoulder muscles are those principally concerned. Blinking of the eyes may or may not be present. The intensity of the reaction varies from an almost imperceptible "hunching" or "fudging" to a gross, violent ducking or "punching forward." The results on the target vary from slight, unrealized inaccuracy to total misses.

To understand what lies behind this behavior, let us start by getting rid of the idea that it is due primarily to fear of physical injury from recoil or to a startled response to the muzzle blast of the weapon. These are factors to be reckoned with, of course; but the master mischief-maker is the emotion of anxiety and its invariable companion, muscular tension. This is demonstrated by two observations: (1) A shooter may flinch badly when firing a .22 rifle, which he knows has practically no recoil and a very mild report. (2) Well-trained nonflinching riflemen often become severe flinchers under anxiety-producing conditions such as competition or, worst of all, combat.

This emotion of anxiety is nothing but fear. It *may* be fear of recoil injury, or it *may* be a startled response to muzzle blast; or it may simply be fear of doing poorly, of bringing discredit to the ego. In combat, anxiety is increased, of course, by fear of death.

Research in physiology has long since conclusively established that when fear is experienced there are certain inevitable accompanying bodily reactions. The heart beats faster and more powerfully; muscular tension increases throughout the body, producing tremor and in-co-ordination; sweating occurs in extreme reactions, with pallor and a sense of chilliness; digestion ceases; adrenaline is poured into the blood stream (apparently as a stimulant to maximum bodily effort in meeting the threatening danger).

When a rifleman feels anxiety *from any cause* he is subjected to most or all of these bodily responses, and their onset creates shaky holding and a sense of panic arising from the perception that he is not his normal self. Realistically, he ought to accept his reactions as normal under the circumstances. He ought to adjust his evaluation of himself accordingly and plug along, making the best of the situation, without an undue sense of weakness or panic. But, all too often, he succumbs to an overwhelming sense of inferiority and panic. His panic increases his unfavorable bodily responses and they, in turn, contribute to increasing panic. In terms of flinching, he is tied into a muscular knot, and this muscular tension seeks release in violent muscular action. If he were defending his life in physical combat he would be wound up for peak performance (unless in the greatest extreme of fear) and would lash out with a supernormal muscular effort, which would break his emotional and muscular tension. But the shooter is engaged in a situation which offers scarcely any release for his tension. He can't use his muscles violently, as his physiology bids him do. The only permissible muscular activity is a minor use of his trigger muscles. So, keyed up as he is, there is very likely to be a spilling over of muscular release into the larger muscular reaction of flinching.

It is quite accurate to observe that flinching, as it afflicts the trained marksman, is an acute neurosis—that is to say, a useless and undesirable outlet for physiological tension which cannot attain normal expression. In this connection it is noteworthy that when the trained shooter has broken his tension by flinching, he tends to recover his usual performance very rapidly. The flinched shot puts him out of the running and he is no longer anxious; or it gives him a release through anger at himself and, thus relieved, his performance improves.

Flinching can be classified into three principal manifestations: (1) The flinching encountered in the untrained beginner. (2) The flinching of the trained marksman under emotional stress (usually in competition). (3) The flinching that develops in the field use of weapons (hunting or combat).

The flinching of the untrained beginner is caused mainly by (1) simple anxiety over being injured by the unfamiliar weapon; (2) a startled response to muzzle blast; (3) actual injury incurred in firing (lips, nose, shoulder). It has been suggested ("Why Does A Flincher Flinch?" by Captain John Minter, RIFLEMAN, March, 1945) that if a beginner has his anxiety over flinching aroused by preliminary "mobilization" of his emotions he is much more likely to flinch. There is no doubt that this can be true. I have seen beginners highly worked up by sadistic stories, told in a kidding vein by veterans, concerning the alleged terrible punishment dished out by military weapons. These recruits have come to the firing line filled with dread and doomed to flinch.

But it is quite another matter to give the beginner an honest, realistic discussion of recoil and of human reaction to it. I prefer always to tell the beginner the truth—that recoil may injure him and that, if it does, he will become a severe flincher. But I try, at the same time, to build up the strongest reassurance that adequate preliminary training will render injury impossible. I develop this confidence by sound, safe-firing technique through sufficient dry firing and .22 caliber firing before the beginner gets his hands on a high-powered rifle. I consider it crude, bungling procedure to allow a recruit to fire a high-powered weapon *without* such preliminary training. From the very start I tell the beginner that the big problem in flinching is the broad emotion of anxiety and that, after

he has lost his startled reaction and fear of injury (which he will quickly do under good instruction), he will still find flinching a problem. I point out that not only his unnecessary beginner's fear of recoil but anything which produces anxiety (Rapid-Fire shooting under a time limit; shooting for record qualification; shooting in a match; hunting game; facing enemy fire) will tend to induce flinching.

Occasionally beginners are encountered who are loaded with great excess of neurotic anxiety about weapons. These individuals may have had frightening childhood experiences involving firearms. More often, a weapon is merely a symbol to which they attach anxiety unconsciously borrowed from a quite different primary source. A very few of these cases are so severe that it is not wise to have them handle firearms without preliminary psychiatric treatment.

Every honest veteran of rifle competition is pretty likely to admit without argument that flinching has continued to be a problem through all his shooting days. I'm sure that I have found it so. I like to have an opponent believe that I am calm for the effect it may have on *his* emotions, but I have never fired in an important match without experiencing all the usual by-products of anxiety. It doesn't worry me much because I anticipate it. The thing that *will* disturb me will be the first time I shoot in a big match and no longer feel the least anxiety. For on that day I will know that my skill has failed to the point where I sense that I am through, that I have no chance to win!

To me the first rule in the control of flinching under pressure is that the shooter shall not kid himself into believing he is a superman, impervious to anxiety. Such an attitude invites panic for when anxiety does take hold (as it will), and the front sight starts gyrating, the would-be superman is a sucker for panic as his self-deception deserts him. If he accepts the fact of anxiety realistically his battle is half won. He can then say to himself, "Hell, here it is, just like I expected. Now I've really got to squeeze 'em off and follow through. My big problem is not that wobble in the front sight; it's 'fudging' on the getaway."

Making this attitude work demands intense concentration on every single shot. A background of successful experience is quite a help, too, but guarantees nothing. In this regard one of the most illuminating experiences of my shooting career happened at Caldwell, New Jersey, in 1919, when I took the line to fire in my first Dewar Match. I was a kid of twenty-one and was accordingly paired up with that great old veteran, George Chesley, then close to the end of his famous shooting trail. As we prepared to fire our first match target I was pretty scared and shaky and thought wistfully how wonderful it would be to have the composure of old George. Then I saw him reach for his ammunition. His hand was trembling as much as my own! That did a lot for me right there, and provided a lesson that helped me to many a competitive victory in later years.

It is my observation that shooters who are familiar only with the prone game never approach the degree of anxiety that comes to the offhand competitor. The most soul-searing test in all the rifleman's world is the International Free Rifle Championship, with its forty shots standing and forty shots kneeling, on a fine-ringed target. This test brings out the most acute anxiety I have ever met in competitive shooting. The exacting target and the unsteady positions, combined with terrific competition, really harass a shooter's soul and bring out a tendency to flinch that must be fought every inch of the way. The final match standings are determined quite as much by control of anxiety and flinching as by basic technical skill.

Next to offhand shooting, Rapid Fire is the type of marksmanship most likely to produce flinching. It is my observation that the pressure of shooting under a time limit will cause about three times as many flinched shots as in an equal amount of Slow-Fire shooting. This seems to me to bear out the theory that pressure produces flinching, even in veterans long past the beginner's fear of physical injury.

In addition to what has already been suggested about controlling match anxiety and flinching, I have resorted to all sorts of little expedients in an effort to break tension. A moment of relaxing from the shooting position helps, as will the trick of taking several deep breaths. In a team match, a good kick in the seat of the pants or any other sudden diversion will often serve to relax a tense shooter. In case a shooter "fudges" a shot (as the best will sometimes do), it is of the utmost importance that this shall not be followed by panic nor by a "quitting" reaction. Many a match has been pulled out of the fire by determined fighting for every point after temporary loss of control had made things look very dark.

Through long and intense concentration upon the control of flinching most veterans become able to check trigger release when they sense a flinching reaction developing. They may punch forward with the weapon but hold the shot and recover to get it off smoothly on the next try. I have done this countless times and have seen it often in other veterans. It calls for a finely co-ordinated response that is possible only with experience and the keenest concentration.

Emotional toughening in actual competition is a very important ingredient in achieving control of match anxiety. The successful veteran finds support and confidence in knowing that he has weathered many emotional storms in the past. I have learned that to be really hot in competition it is essential to be well tempered in the fire of constant shoulder-to-shoulder match shooting. At the beginning of every new tournament season I feel the pressure much more strongly than at the end of the same season, and I am sure most shooters have a similar experience.

In the hunting field, shooters may not only flinch at the critical moment but may also undergo one of the several paralyzing or aimless reactions of acute "buck fever." The underlying causes are the same as those already discussed. The best remedy lies in thorough marksmanship training (which gives confidence) and in actual field experience. Of course, there are a few chronic sufferers from "buck fever" whose trouble has deep roots that will not yield to any but psychiatric treatment.

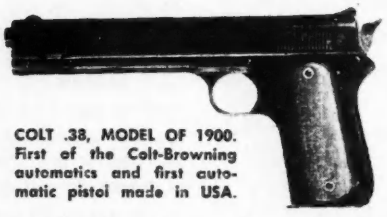
Exposure to enemy fire in combat brings on the severest grades of anxiety. In any case, anxiety and its bearing upon marksmanship is surely a matter of profound concern to all marksmen, especially so when we are at war and marksmanship has to meet its most violent emotional test. It is hoped that the concepts outlined here may be of practical service to competitive and combat riflemen alike. ◆ ◆ ◆

OUR SERVICE GUN - - - - and How It Grew

By CHARLES T. HAVEN*

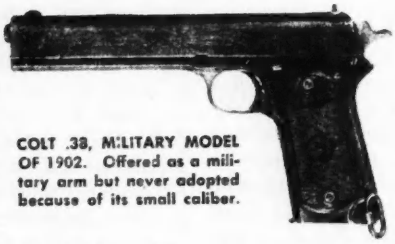
SINCE 1911, THE *Colt Automatic Pistol Caliber .45, Government Model of 1911,* has been the standard side arm of our armed forces. It has also been a very popular handgun for sportsmen, hunters, target shooters, and all who want a reliable automatic delivering a good husky wallop when the bullet connects.

During the early part of the present war, the pistol was somewhat obscured in a smoke cloud of enthusiasm generated by carbines, submachine guns, bowie knives, 60 mm. mortars, brass knuckles, and other accessories for the well-dressed infantryman that were supposed to take the place of the pistol in the hands of the average soldier. Now, the cry from men actually in combat—especially those in the South Pacific—is, "Give us handguns! Other weapons are okay for their specific uses, but *we still want handguns!*"



COLT .38, MODEL OF 1900. First of the Colt-Browning automatics and first automatic pistol made in USA.

Ever since our own Civil War, American fighting men have held the handgun in high regard whenever they were faced with the problem of disposing of the enemy in personal combat, and the demand is greater today than it has ever been. The Government manufacturing program on the service pistol includes not only the total capacity of the Colt Company, but involves high-priority manufacturing programs in two other companies as well, besides the manufacture of parts by still another concern—a total daily production far greater than was achieved at any time during the first World War. But in spite of this huge production for military issue, individual soldiers who are unable to obtain handguns through regular supply channels are begging for them *from any source*—even to the point of eager willingness to pay today's inflated prices out of their own pockets for secondhand guns.



COLT .38, MILITARY MODEL OF 1902. Offered as a military arm but never adopted because of its small caliber.

Nor is the recognition of the handgun's place in modern warfare limited to America alone. Russia has bought them in huge quantities through Lend-Lease, has made them in amazing numbers in her own plants. Germany made and used them in vast quantities. Great Britain was never able to satisfy the demands of her fighting men for revolvers and pistols. Japan, too, is very definitely "pistol conscious."

These facts fail very decidedly to support the rumor that the handgun is "on its way out" as a military weapon! Our own rugged service pistol has played, and will continue to play, an important role in this war.

Few of its users, however, take the time and trouble to look behind and beyond its rugged lines and wonder "how come." The .45 Colt didn't just spring into being by magic, nor did it "just grow" like Topsy. It has a background that goes back through the years to 1892, when John Browning first began to experiment with the idea of making some of the confusion caused by the discharge of a gun do the work of reloading it for another shot.

Browning brought the result of his early experiments, reduced to pistol form, to the Colt Company about 1897. At this stage of the game his idea was for a hammerless weapon that would fire full automatic. In the next three years of development at the Colt plant, the full-automatic feature was discarded as impossible to control in a one-hand gun, and a hammer was placed on the outside.

The result was the Colt Automatic pistol, caliber .38 Model of 1900. This was offered to the public in the spring of 1900 and was the first automatic pistol manufactured in this country. It embodied a great many ideas still retained in all Colt-Browning pistols, but like all "firsts" it had a few faults. There were no safeties on the pistol except for a pivoted rear sight which could be lowered to block the firing pin and form a safety by preventing the pin from going forward, where the hammer struck it.

The cartridge was a newly developed one using a 130-grain bullet with a muzzle velocity of about 1,200 feet per second. The bullet was metal jacketed and the cartridge was rimless, the prototype of all automatic pistol cartridges manufactured in this country since then. Both the load and the cartridge were distinctly new to American handgun ammunition. This weapon was offered to the government as a service weapon at the time it was brought out.

At that time, our standard service pistol was the Colt New Army and New Navy .38 caliber double-action revolver, which had been adopted progressively since its development in 1889. This had taken the place of the old familiar .45 Single Action Army, which had been in use since the early '70's.

The value of the .38 caliber revolver as a manstopper was beginning to be questioned by military authorities on account of the results of its use in the campaign against the natives in the Philippines. Those little brown boys soaked up .38 bullets with no appreciable effect and then dashed in to chop the shooter to bits with very nasty, native, edged weapons. After a man had seen one of these lads take six shots in the chest area without being even slowed down in his charge, he might well begin to question the desirability of a .38 caliber bullet as a manstopper.**

COLT .45, MILITARY MODEL OF 1905. First of the Colt .45 autos and subject of extensive government testing.

This situation resulted in a joint series of tests (in 1903 and 1904) by Government Ordnance officers and the Army Medical Corps under Colonel Lagarde. In

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* Co-author (with F. A. Belden) of "A History of the Colt Revolver."

** (It should be made quite clear here that the .38 cartridge then in use did not compare in manstopping power with the .38 Special cartridge so popular today.—ED.)

the meantime, the Colt Company had brought out the 1902 Model Military Automatic. This weapon was distinguished by the absence of any safeties whatever except a floating inertia-type firing pin, but was fitted with the now-conventional slide lock to hold the slide open after the last shot had been fired.* This has been a feature of all military automatics since that day. The Model 1902 also was offered the government but, pending the report of the Board on calibers, nothing was done about it.

The Board tested bullets all the way from a .30 Luger up to the tremendous British .476 manstopper cartridge (which was about the shape and very nearly the size of an ash can with the cover off), testing them both on live cattle and on the dead bodies of human beings. As a result of these tests, the Board decided that no bullet less than .45 caliber or less than 230 grains weight was suitable for service pistol use. The Ordnance Department, therefore, directed all makers offering weapons for service use to conform with these requirements. That directive remained in force for many years.

1908 MODIFICATION OF 1905 MODEL. Made in small quantities for government field tests between 1908 and 1910.

As a result of this request, John Browning and the Colt Company produced the Model of 1905 .45 caliber Military Automatic Pistol. This was similar in appearance to the .38's that preceded it and had no safeties, but was equipped with slide locks. This pistol was tested extensively in 1906-07 by an Ordnance Board which also tested the Savage Automatic and several foreign automatics including the Luger, Bergmann, Bayard, and Shoboue in .45 caliber. As a result of the tests, the Board recommended the purchase of 200 Colts of an improved model and 200 Savage pistols for continued field tests by issuance to cavalry regiments.

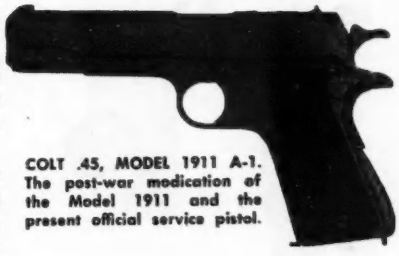
COLT .45, GOVERNMENT MODEL OF 1911. Our standard military sidearm from its adoption through World War One.

Some changes were made in the Model 1905 .45 for delivery on this field-test program. A small grip safety somewhat similar to the one on the Model 1911 was applied to the pistol and a better-shaped spur hammer took the place of the earlier rounded hammer. All the models since the 1902 had used the present-type floating firing pin as a safety feature, and this was included in the model made for the field test.

As a result of field tests, between 1908 and 1910 further recommendations were made to the Colt Company, and these resulted in the very thorough overhauling and refinement of the whole model and the production of the Colt Automatic Pistol Military Model of 1911.

The new model resulting from these changes was fitted with both grip and manual safeties and with a slide lock, and was chambered for the original .45 Colt cartridge. This model was immediately adopted by the government as the standard service pistol and has retained that official designation ever since. It was universally acclaimed by writers on automatic weapons as the most reliable and hardest-hitting automatic pistol in use in the world.

The Model 1911 .45 was further modified after the first World War by the addition of the longer grip safety spur and an arched housing of the mainspring at the lower rear portion of the grip, and by cutting away a portion of the receiver just back of the trigger on the left side of the weapon to allow smoother trigger control. These changes made the arm a little more comfortable in the hand, but no change in any of the mechanical features was made at this time.



COLT .45, MODEL 1911 A-1. The post-war modication of the Model 1911 and the present official service pistol.

* (The slide lock was not new; it had been used commercially by Schwarzlose as early as 1896.—Ed.)

*American Rifleman—November, 1944.
*American Rifleman—June, 1944.
*American Rifleman—Oct., '44; May, '45.

It is these two weapons, the 1911 and the 1911 A-1, which are now in service in as great quantities as is possible to obtain them. The present standard load is a 230-grain bullet of .45 caliber, using a gilding-metal jacket with a lead core, driven at a velocity of 800 feet per second. This gives a muzzle energy or striking force of 330 foot-pounds. Visualize, if you can, the effect of such a blow against a man target, and you will appreciate the descriptive aptness of the old saying, "Hit a man with a slug out of a Colt .45 and, if he doesn't fall, walk around behind him to see what's holding him up!"

After thirty-five years of war use and peacetime testing, the Model of 1911 is still pretty generally conceded to be one of the most rugged and reliable automatic pistols in service use anywhere in the world today.

The European tendency has always been toward smaller-caliber, higher-velocity pistol cartridges, and comparatively complicated weapons. Europe has clung tenaciously to the 9 mm. Parabellum cartridge, and no one can deny that it has demonstrated its usefulness in combat. Some of the European weapons using it are excellent in design and efficient in use.

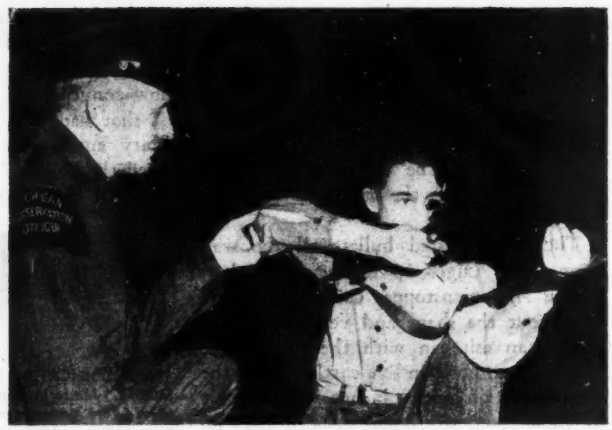
But it is interesting to note that several of the service automatics recently adopted in foreign countries have been developments of the old Browning design. Especially notable in this connection are: the Polish Radom,* designed in conjunction with the Belgian Browning F.N. plant; the Russian Tokarev,* a simplified adaptation of our own Colt; and the Model 1935 F.N. Browning,* which was adopted by the Belgian and French armies prior to World War Two and which is now being made in Canada by the Inglis Company for the Chinese Army.

These weapons are all made in the 9 mm. European caliber, but the mechanism in each case is an adaptation of the original Browning short-recoil action. It would seem that Mr. Browning didn't do so badly when he designed it, some fifty years ago!

Today, the United States Navy is again using .38 caliber revolvers—but revolvers chambering the powerful .38 Special cartridge, very different indeed from the loads found wanting so many years ago.

But the Colt .45 Model of 1911 A-1 continues to be the choice of the Army and the Marine Corps, and continues to give knock-'em-down service wherever it is used. "Its lusty might makes men one height, this Army Automatic!" ♦ ♦ ♦

A "FIRST" FOR MICHIGAN



Michigan officer teaching one boy how NOT to have a hunting accident.

UTTERLY IGNORANT of the proper handling of firearms, teen-age youngsters have been involved in too many of Michigan's hunting accidents. They never were told the facts of life about weapons. In some cases, ignorance may be bliss; but when it comes to the handling of firearms, it's folly.

But Michigan has some progressive-thinking officials in its Department of Conservation. And, what's more important, they are capable of following careful thought with vigorous action. In this case they've done both. C. A. Paquin, Chief, Division of Education; Russ Martin, Superintendent of the Department's Training School; and H. R. Sayre, Chief of Field Administration, got together with Don Gillies, NRA Director and Outdoor Editor of the Detroit *Times*, and W. Dow Smith, Field Representative of NRA, to talk it over.

They decided that in their own Conservation Officers (modern counterparts of the old-time game wardens) they had a potentially effective medium for the much-needed education of Michigan's youthful sportsmen. Given proper training as instructors, they felt that these men could do a lot to improve this situation. NRA co-operation was obtained and Dow Smith went into action.

Already one training course for Michigan's Conservation Officers has been completed. On March twelfth last, thirty-four of these men gathered at Higgins Lake. In addition to law enforcement, fire fighting and prevention, et cetera, the subject of small-arms handling and shooting was thoroughly covered under the capable tutelage of Dow Smith. Seven hourly sessions were devoted to the problems of junior shooting. These were pointed especially toward the basic principles of firearms safety and to methods of establishing junior rifle clubs in which Michigan's youthful sportsmen may be indoctrinated with these game-saving and life-saving principles.

Facilities of the NRA were utilized to the full in this course. Its motion picture film, *"How To Shoot The Rifle,"* was shown early in the course. The NRA *"Junior Rifle Handbook"* and *"Junior Instructor's Manual"* were subjects of careful study and interested discussion. The wartime activities of organized shooting, particularly with respect to preinduction rifle training, were also covered. In addition, such allied topics as the classification of shooters, range procedures, registered tournaments, and the National Matches were given their full share of consideration. All in all, though brief, it was a well-rounded and comprehensive course of instruction.

NRA Field Representative Dow Smith (right) instructs a class of Michigan Conservation Officers who, in turn, will instruct Michigan youngsters in rifle safety and rifle marksmanship in a program designed to cut down hunting accidents in Michigan's woods.

On satisfactory completion of the course each Conservation Officer was issued a commission as an NRA Junior Instructor. It is hoped that these men will fully appreciate the importance of this new phase of their work, the opportunities, and the responsibilities before them. They are placed in a position to perform a great service to the sportsmen of the present and the future. It goes even beyond that. It will be a real service to the State of Michigan and to the Nation. It may be that they will even be able to point the way for us again to become a "nation of riflemen."

This is only the beginning. The plans of the Michigan Department of Conservation include many other schools for Conservation Officers. Also, this year there will be three schools for youngsters during July and August. Each of these will teach firearms safety and basic marksmanship to a hundred boys between the ages of fourteen and seventeen years. At Higgins Lake, a fifteen-firing-point rifle range is to be constructed, with all modern improvements.

The NRA recommends this program for the serious consideration of all state conservation departments. More than that, it strongly urges the adoption of forty-seven similar programs, and pledges its facilities and the support of its members and clubs throughout the country.

This is a conservation measure of the first water. As such it is well within the province of the various state game or conservation agencies. Its primary object is to save human lives. But a by-product is a much better grade of shooting which will save game. There will be less game wasted by crippling shots which allow it to crawl off in the brush to hide in its agony while the hunter goes blissfully on his way crippling other animals with his rotten shooting.

A better grade of sportsman will emerge over the years because he will enjoy a better grade of sport. He will know and better understand what it is he's trying to do. Not the least of the resulting advantages will be a better mutual understanding and respect between the hunter and the conservation officer. ♦ ♦ ♦

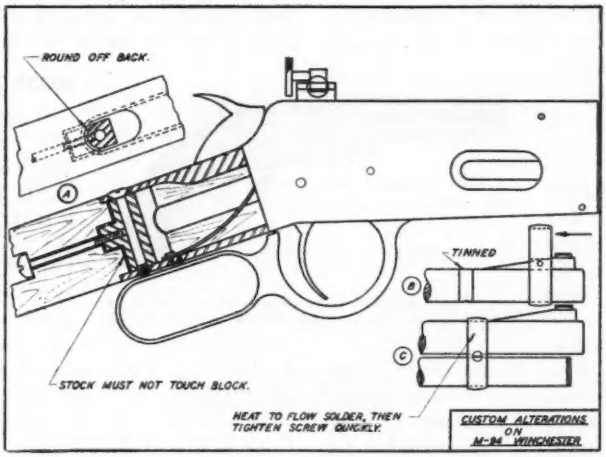
Rebuilding the Model 94

By BILL NICKELS

THE MODEL 94 WINCHESTER is still, for my money, the outstanding repeating rifle of all time.

Countless thousands of professional hunters, trappers, and range men from the frozen tundra of the Arctic to the steaming jungles of the tropics will echo this statement. Made in a variety of calibers (of which the .30-30 is most popular, with the .32 Special and .25-35 second and third in popularity), the "94" has killed all kinds of American game, large and small, and is still dependable and powerful enough to go right on doing it in the hands of experienced men.

I consider the carbine in this model the handiest of all rifles for all-purpose use. While it does not have the terrific punch of the Magnums or the flat trajectory and longer range of a .270, neither does it kick your shoulder black and blue, or have a bolt handle to stick out like a sore thumb at all times to make it a nuisance to carry on horseback in a scabbard. And last, but by no means least, if a hunter happens to have a .30-30 and should run short of cartridges when out "forty miles from nowhere," he need not worry. He can stop at the first Indian tepee, igloo, sheep camp, or trapper's cabin and get more. The .30-30 is the first choice of most all outdoorsmen and of those fellows who have to live "out back of beyond," and you may be practically sure of being able to obtain a few extra cartridges if you need them.



Another thing I like about the 94 carbine is that the parts are interchangeable. And these guns are never quite so worn out as to be useless. If you should lose or break any part of one, you can easily replace it with a corresponding part from some other old Model 94, no matter what its caliber.

I have such a gun (a .25-35) that has been my father's and mine for more years than I can remember. Shortly after it became all mine, I gave it a complete overhauling and rebuilding as I have done with other guns in my cabinet. Upon examination, I found the barrel bands and the stock loose. The barrel, too, was beginning to get rough inside—which was not very surprising, in view of its years of use before the advent of modern noncorrosive ammunition.

I began by ordering a new barrel from the Winchester factory and carefully polishing the bore before installing it. The polishing was done by the use of a lapping rod similar to the one mentioned in Mr. Howe's book, "*The Modern Gunsmith.*" As a polishing agent, I first employed third-settling emery and olive oil on a cast lead lap, following this with jeweler's rouge on a felt lap. Lapping is always done from the breech end of the barrel, and there should be a guide for the rod to keep it well centered in the bore throughout the operation. About the best device I have found for this is a fired shell with the primer pocket drilled out to proper size. After lapping, the bore looks darker but very smooth. If not done with extreme care and good judgment, you can do the barrel far more harm than good. While this lapping may not be absolutely necessary, I believe it tends to shorten the "breaking-in" period and greatly lessens the metal fouling.

Using Mr. Howe's barrel vise and a good twenty-four-inch monkey wrench, I next set the new barrel carefully up to the action. The last eighth turn is not always easy, but with this barrel vise you have plenty of power. Remember that it is necessary to go very slowly and carefully here to avoid going the least bit past the proper stopping point because of the danger of straining threads. It is best to watch both the extractor slot and the front sight, and stop to check on them before you set the threads. Then come steadily up—and quit! (Remember, too, that head space *must* be checked whenever a new barrel is fitted on any gun. Otherwise, the gun may be extremely dangerous. This point is covered more fully later in this article.)

Next, to do something about that stock. I have never seen an old carbine of this model on which the stock was not more or less loose, and no gun can be counted on to put its bullets "in the black," shot after shot, with a stock in such a condition. In the 94, the end of the tang has a tendency to bite down into the wood causing it to shoot loose with long use, and no amount of tightening of tang screws will stop it.

Since the best way to really hold a stock firmly in place to an action is by means of a long bolt through from the rear, I set about to do this in the best way possible without any alteration of the action. The steel block set in the front of my stock, as shown in drawing A, seemed to be the logical answer to this question. In making my block, I made very certain that the ends where it contacted the tang were a good flat fit to the tangs. To install it, it was only necessary to enlarge the already-present tang-screw hole to a diameter nearly the width of the tang, and to elongate it toward the front until the projection of the back of the block would go down in place.

The positioning is self-explanatory from there on. The butt screw, No. 12-32, is threaded into the back of this block. I did the drilling of the long hole through the stock between the centers on a lathe. The old trick of (*Continued on page* 31)

The 1898 Schwarzlose, caliber 7.63 mm. Mauser; forerunner of many modern arms developments and a handsome weapon even by today's standards. Insert shows magazine-follower slide stop, first used on this weapon.

"Something Old and Something New"

By W. H. B. SMITH

THE SCHWARZLOSE MODEL OF 1898 was one of the first automatic pistols to be successfully marketed. It was also a very attractive weapon in appearance, even by present standards, as the picture proves. Essentially a military pistol, it was designed to handle the Mauser 7.63 mm. cartridge, which is still one of the most powerful pistol cartridges made.

While it had many design features which were improvements over the Mauser, it did not have the sturdiness of that weapon and its popularity in Austria and Germany was short-lived. It was used quite extensively in Russia and eventually was sold at very low prices by the New York firm of Bannerman.

This model, using a magazine inserted in the handle from below, was the first generally manufactured pistol to utilize the magazine follower to operate a stop which would hold the weapon open when the last shot was fired.

The Volcanic pistol of 1854, whose unique cartridge is the pattern for the new Jap 40 mm. cannon charge.

However, its greatest achievement was in the development of a locking system which disappeared from general manufacture until 1934 when it emerged as the essential locking principle in the famous German MG 34, one of the great achievements in light machine-gun production. This same basic principle is also utilized in our own Johnson light machine gun. It operates on the principle of a short recoil during which the bolt is locked firmly to the barrel. An extension which is part of the barrel forging is machined to receive the locking lugs.

As the weapon is fired, the barrel and bolt, locked together, move to the rear for nearly half an inch. At that point the bolt, which has been traveling back with its four locking lugs firmly engaged in their recesses behind the chamber, is rotated as a guide sliding in a helical slot in the underside of the bolt forces the bolt to turn 45 degrees to the right. Rearward movement of the barrel is halted as the bolt lugs are turned out of their locking seats; and the bolt then travels back in a straight line to extract, eject, compress the recoil spring and cock the action.

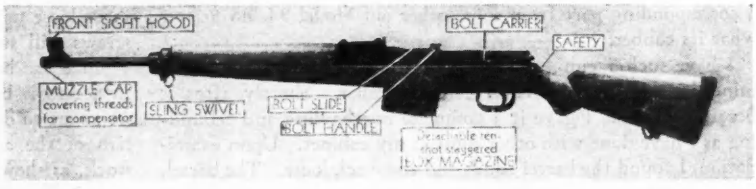
The German MG 34 is similarly provided with a recoil mechanism moving directly to the rear in line with the axis of the bore and has its barrel firmly fixed in a barrel extension machined to receive the locking lugs of a revolving bolt. The Johnson differs in that the barrel is readily separable from the receiver section in which the revolving bolt head locks, but the system of short recoil, straight-line operation and revolving bolt head lock is also employed.

In view of the success of these two light machine weapons, one cannot help but wonder what developments would have been produced if Schwarzlose's design had been experimented with extensively twenty or thirty years earlier.

MORE SOUTH AMERICAN "COLTS"

If you are the average gun lover and were asked to name the Colt revolver which is most popular in South America and in Spanish-speaking areas generally, it is very unlikely that you would guess the caliber and model correctly. The Colt Pocket Positive caliber .32 with two- or two-and-a-half-inch barrel and a weight of about one pound is the correct answer. This weapon is so widely distributed in these areas that it is popularly referred to as *"El Pequeno"*—the little one.

Some South American factories are currently manufacturing copies of this weapon, fitted with stocks bearing the Colt medallion, so perfect in exterior appearance that even the most fervid Colt fan could not recognize the difference between the imitation and original at a distance of a few feet.



The 1943-44 German semi-automatic rifle (Karbiner 44) shows design features well suited for use in future sporting rifles.

Like most German and Russian arms, field stripping is quick and simple. The entire bolt assembly slides up and back off its receiver tracks. Note built-in telescope mount directly above the trigger guard.

These weapons, unlike most imitations of this sort, are reasonably well made of good material. Usually they carry no identifying marks of any kind and the absence of barrel stamps is an immediate indication that the weapon is spurious. While the exterior appearance and finish equal that of the genuine Colt, an examination of the lockwork shows that the interior manufacture is considerably short of Colt standards. Furthermore, unlike Colt revolvers which are all rifled with twist to the left, these South American imitations are rifled to the right, with six grooves. It is a pretty good guess that the rifling machinery used was imported from Europe.

In *Tiro y Gimnasia,* an official publication of the ministry of war in the Argentine, advertising is regularly carried for the "Criolla" pistol. While this pistol is "Fabricada en el pais" —made in the country—and patented by Ballester Molina, it is still the Colt .22 Ace by any other name.

The development of arms factories in South America in recent years is of particular interest in view of the fact that the weapons produced are usually pretty exact copies of Colts and, to a lesser degree, Smith & Wessons. While the material and workmanship is usually superior to that of the typical Spanish-European manufacture, none of these weapons so far examined can be classed with United States manufacture. This fact should be borne in mind by anyone obtaining weapons of this sort.

THE VOLCANIC IS BACK!

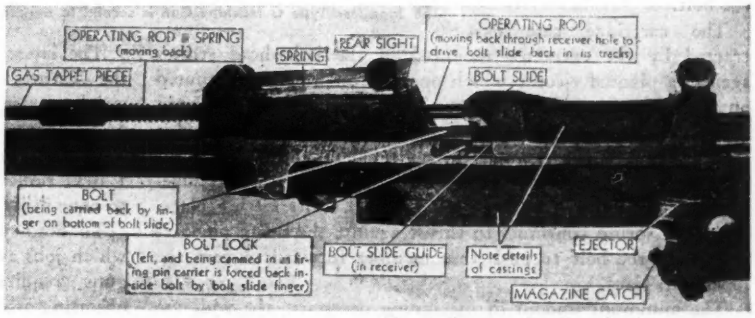
'Way back in 1854, Smith & Wesson, then manufacturing at Norwich, Connecticut, introduced the first of a series of pistols whose manufacture was continued by the Volcanic Repeating Arms Company of New Haven, then by New Haven Arms Company of New Haven, out of which grew the Winchester Repeating Arms Company. The action of that first Volcanic provided the operating principle of the famous Henry and Winchester lever-action rifles.

But we are concerned here not so much with the weapon as with the cartridge it fired. While cartridges of this type were experimented with in Europe, the American firm was probably the first to distribute them on a commercial basis. The Volcanic cartridge consisted essentially of a bullet with a hollow at its base in which the propelling charge and the primer were both seated. This type of cartridge *had no case.* In the Volcanic pistols, these loaded bullets were inserted in a tube below the barrel and then

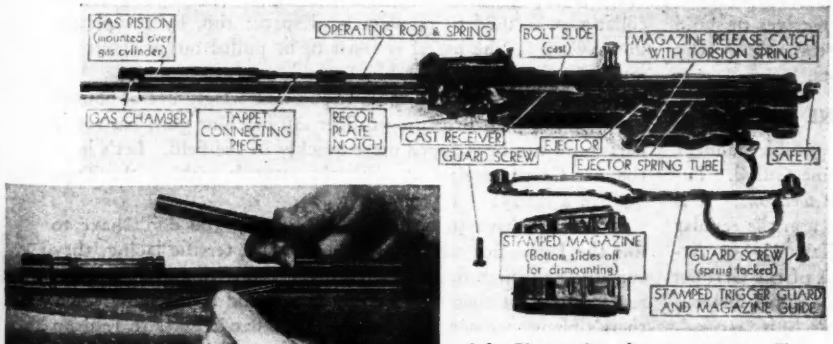
The German 1945 Volkssturm Carbine; crude, ugly, cheaply constructed, but potentially a revolutionary development in gas-locked firearms.

were levered successively into the breech by operation of a trigger guard lever. When the hammer fell, it drove the breechblock ahead and a projection on the face of the block detonated the primer in the bullet, discharging the small powder charge ahead of it and driving the bullet out the barrel. While this system had the advantage of not requiring a cartridge case and hence not requiring an extracting or ejecting system, the construction required a low-powered cartridge, and the loose breechblock permitted a large escape of gas at the breech. With the advent of the metallic cartridge successfully designed and marketed by Smith & Wesson, the magazine rifle as such was a practical possibility. From that point developed the great Winchester Repeating Arms Company.

Now, in the year 1945, the Japanese have evolved *a 40 mm. automatic cannon* which fires projectiles carrying their own propellant and primer much in the fashion of that early Volcanic! The projectiles are fed into the gun by gravity feed. Again, no case is needed and no extraction or ejection problems are faced. However, except that they have increased the caliber, the Japanese have not materially improved the efficiency of the operating type.


OPERATING ROD & SPRING (moving back)
SPRING
REAR SIGHT
OPERATING ROD (moving back through receiver hole to drive bolt slide back in its tracks)
GAS TAPPET PIECE
BOLT SLIDE
BOLT (being carried back by finger on bottom of bolt slide)
BOLT LOCK (left, and being cammed in as firing pin carrier is forced back inside bolt by bolt slide finger)
BOLT SLIDE GUIDE (in receiver)
Note details of castings
EJECTOR
MAGAZINE CATCH

Above: **Close-up of action, showing operating rod being blown back through hole in receiver to drive bolt slide back. A finger on bottom of bolt slide engages the bolt and carries it to the rear also.** ***Left:*** **The rifle with woodwork removed to show manufacturing details and assembly.**



Left: **Dismounting the gas system. Piston fits over cylinder, is connected by means of small tappet piece to operating rod working back through receiver.**

However, it may well be that with the tremendous knowledge we have gained in this war of the operation of the hollow-charge principle in explosives, *it is entirely possible that research along the lines of providing the right explosive and seating it in the proper manner in a projectile may eventually produce a type of efficient projectile and weapon quite unlike anything in common use today.*

THE LAST (?) GERMAN SEMIAUTOMATIC RIFLE

A close study of the 1943-44 (officially called the Kar. 44) version of the German semiautomatic rifle shows a number of design features which are very desirable, some of which have a possible commercial application. (For example, a simple, cheap, safe, easy-to-manufacture, straight-pull bolt rifle could easily be evolved from this design.)

The Germans borrowed the gas-operation principle of the Russian rifle for use in this new weapon. Under this simple system, gas is taken off from a port in the barrel about thirteen inches from the chamber. As this gas expands, it is directed back to thrust back a piston which, in turn, drives an operating rod in straight line back through a hole in the upper part of the receiver. This operating rod strikes a sliding bolt cover, starting it to the rear. A finger on the underside of this cover passes down through a hole in the top of the bolt and is in contact with a firing pin carrier inside the bolt. As the pressure drops, this finger forces the firing pin carrier back to pull the firing pin away from the primer of the fired cartridge. Cam surfaces on the carrier, pressing against corresponding surfaces on loose bolt locks set in either side of the bolt, pull the bolt locks back out of their locking recesses in the side walls of the receiver.

From that point on, the entire bolt assembly (including the bolt slide, the bolt, and its components) travels straight to the rear in guides provided for them, compressing the recoil spring and buffer spring mounted in direct line behind the bolt.

The cartridge case extracted by the extractor mounted in the bolt head strikes against a pivoted ejector which operates off a spring mounted on the left side of the receiver. The cartridge case is ejected and the spring in the magazine below forces a new cartridge up into line. When the recoil energy is exhausted, the powerful recoil spring drives the bolt forward to chamber a cartridge.

When the bolt has been driven forward to its resting place, the recoil spring continues to thrust against the firing pin carrier inside the bolt to push that member forward to cam the locks into place.

The minimum amount of machining necessary, the wide use of cheap stamped parts, and the German development of casting steel strong enough to permit a cheap cast receiver to stand terrific breech pressures are all factors making this rifle worthy of study by our designers and our metallurgists.

THE GERMAN 1945 VOLKSSTURM CARBINE

This weapon was rushed through at the last possible moment in a desperate Nazi endeavor to arm their Home Guard. *Potentially this is a revolutionary development in weapons.* It is crude and extremely cheap in manufacture. It uses the regular thirty-shot magazine of the German Army Kar. 43—or Assault Rifle 44, as it was called in the closing days of the German campaign. It is semiautomatic, fires from a closed breech, and has very little recoil.

Forget for a moment the crude appearance of this weapon and consider this one remarkable fact: This weapon fires the powerful German carbine cartridge (125-grain bullet at a velocity of about 2,300 feet per second) from a new type of *unlocked* breech!

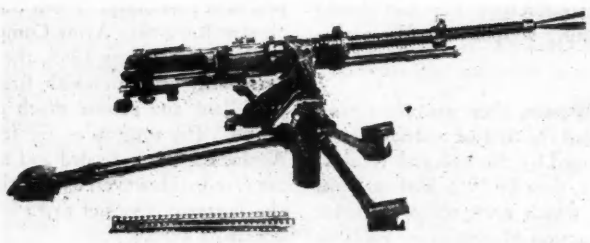
Heretofore it has been necessary to employ a breech-locking device, always costly and often complicated, when using powerful cartridges. The alternative was an extremely heavy action with powerful springs which made the arm unwieldy and unfit for use as a shoulder weapon.

All automatic actions thus far used have depended on recoil operation in which the breech section was unlocked during recoil, or on gas operation by which gas taken off at the muzzle or through a barrel port drove back a moving piston to unlock the breech.

In this remarkable new weapon, gas is taken off through barrel ports and its expansive force is brilliantly and simply utilized to hold the sliding members forward while breech pressure is high, without the necessity for a locking system!

JAPANESE TYPE "O" MACHINE GUN

Soldiers, Marines, and Seabees who have faced Japanese machine weapons have developed a healthy respect for those weapons. The Japanese Light Machine Gun, Type 99, is generally admitted to be one of the finest and most reliable weapons of its type so far produced.



The Japanese Type O Machine Gun is second to none made by any nation.

The Jap Type 92 heavy (or, as we would class it, medium) machine gun is a sturdy, dependable, and efficient Hotchkiss-type gas-operated and air-cooled gun whose one deficiency is its excess weight and unwieldiness.

The latest Japanese development, the Type "O," combines the features of extreme simplicity and sturdiness with light weight, extreme flexibility, simplified barrel removal, and improved gas action. Add to these features the fact that the gun is precision-manufactured and handles the efficient Jap 7.7 mm. (.303) rimless cartridge and you have a gun which rates second to none in its class in the entire field of such weapons!

To head-space this gun or to change the barrel—both of which jobs are, frankly, major operations in our own machine guns (requiring considerable time and the removal of several operating assemblies)—it is necessary only to depress the spring catch on top of the receiver and unscrew the barrel collar. This collar can be used to regulate head space; and, by completely unscrewing it, the barrel is freed to be pulled out without removing any parts or assemblies!

Incidentally, the gun and its tripod now weigh several pounds less than our own Browning caliber .30 machine gun; has fewer parts, and can be stripped more quickly in the field. Let's hope the Air Corps catches up with the arsenals making the Type "O" in a hurry!

You don't have to like the Germans and you don't have to like the Japs. But when, in the midst of a terrific lacing, they can drive through developments of this sort, it seems advisable to face the fact that while we are good (and readily admit it!) there's plenty we can learn. We have what it takes to fold up the Japs—good materiél in unlimited quantities; but, in view of the evidence presented, who would say we can't give our boys *still better* weapons? ♦ ♦ ♦

BILL SHADEL, just returned after nearly two years in Europe as War Correspondent and CBS radio news reporter, submits herewith his personal

REPORT TO RIFLEMEN

THE LIGHTS OF NEW YORK *were laughing as we came into the harbor that night of May twenty-ninth. They were the beacons of welcome, the reception committee for some 9,000 heroes, hungry for the sight of them. Those lights, and the skyline of an undamaged city, and the glowing flare of a Coney Island—the gaiety, the amusement, the smiles and laughter those things represented—spelled in glowing letters to war-weary veterans the magic word: HOME!*

Left far behind was a sullen, beaten, smouldering Germany. Here was laughter, the heart-warming, tingling smiles of fellowship. In Germany there are no smiles. This was a breath of fresh air. Europe is depressing, still steeped in the foul air of misery and hate and vengeance.

My last ten days with the Navy aboard a Destroyer bring vividly to mind another trip on the high seas, a year ago. On the night of June fifth, aboard the Cruiser Tuscaloosa, when we started to move across the cold dark waters of the channel, the task of destroying the German Army looked tremendous. That Army included some 347 enemy divisions in all; sixty-odd of them in France, waiting behind the much-vaunted West Wall. A large proportion of the remainder was lined up against the Russians. The Russians were over a thousand miles to the east. There was little thought, in those days, of a junction between the two armies. The entire German Army was between us and our allies. Every thought was focused on those Normandy beaches and the hell of fire our men would soon be facing.

But those Normandy beaches were hit, and won. Reinforcements and supplies started building up. The fighting was bitter, in every village, at every crossroad and every hedgerow. The American as a fighting man was again on trial. How well he matched any performance seen previously in Europe is shown by the optimism which prevailed last fall, when V-E Day seemed so near.

I was assigned to cover General Patton's Third Army. I was glad of that assignment, for, as everyone (including the Germans) knows, the brilliant campaigns of that Third Army made some of the greatest stories of the war. An Army assumes definite characteristics to the correspondent who is associated with it over a period of time. It takes on a personality all its own. And I developed an especial liking for the Third Army—because it represented so many things that seem to me to be typically American. It had color, dash, daring. It was bold and venturesome. It showed the world the things the world hoped for, yet dared not expect.

Then came the Battle of the Ardennes. Von Rundstedt had struck back in a desperate gamble. Momentarily, the American fighting man was forced into a defensive role, slugging it out with three powerful German Armies.

The magnificent 101st Airborne Division at Bastogne wrote history. So did the 1st, 2nd, and 99th divisions at Malmedy. So did the 82nd Airborne at Stavelot. At these and countless other places, individuals and divisions fought with quiet fury . . . and won. That victory added stature to the American fighting man.

This is the man we must not forget, this American fighting man—this civilian turned soldier—who kept war's devastation away from our own shores.

We must not forget, either, the things he saw after the breakthrough; things we've tried to tell you and have failed to find words to describe: the horrors of the German concentration camps at Buchenwald, Dachau, Landsburg, Ebensee, and elsewhere. I saw the ones I've mentioned. I couldn't describe them then; I can't now. Things that haven't seen print; things that can't be printed. Believe me, none of the stories you've seen or heard, none of the pictures, have been exaggerated.

It is from such as this that the courage and tenacity of American fighting men saved us. For—notwithstanding our production lines, our machines, our engineering and productive skills—the American fighting man is America's strength. He must always be strong, resourceful—and skilled. Skilled in the disciplines that, in a comparatively few months, can make a soldier. Skilled in the use of his weapons that can be thrown to his shoulder; thrown there naturally, with subconscious readiness and effectiveness. I have seen innumerable instances where this has paid off, has meant the difference between life and death, the difference between the success or failure of a patrol, the stand or rout of a company. . . . And I have also seen the deplorable lack, among hurriedly trained replacements, of this all-important, morale-building ability.

Europe's ills, and the repercussions from those ills that so closely affect our own country, are by no means settled by the American fighting man's completion of his immediate job in Europe. We must at all times STAY *prepared. For, in the Europe some of us have just left, power is the only thing that seems to count. If our own cities are to stand intact, if our factories and establishments are to be kept up to the potentials of conversion in an emergency, it will be only because we maintain a well-organized reserve of adequately trained fighting men and display to the world, and to any nation with notions of aggression, our readiness.*

That's why we need some form of universal military training. That's why we need a National Rifle Association . . . to promote small-arms marksmanship, whether on the range or in the hunting field. I was never more convinced of the need of such skill; never more completely persuaded that it provides that essential SOMETHING *needed in addition to the American fighting man's heart and ability; a something which cannot be left to a few final, hurried months.*

Space does not permit the recital here of untold instances where a hunter or a practiced target shooter, alone and single-handed, created havoc in the ranks of a determined enemy counterattack. I have tried to report some of those instances to you. . . . The great tragedy is that there were not more of them. There could have been more, multiplied thousands more, if we had had more hunters, more expert riflemen, to call up from civilian ranks.

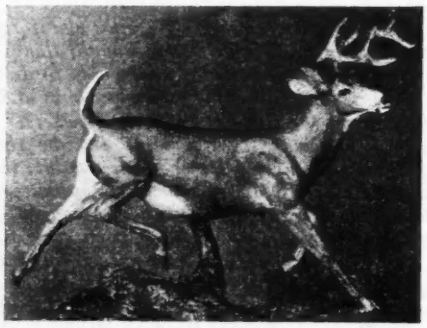
Next time, if there ever has to be a next time, it must be different! America must have those riflemen. American fighting men generally, not just in individual instances, must have that edge that skill with shoulder weapons gives.

I am convinced that we can and will have it; that the shooters of America, with evangelistic fervor, in the bonds of patriotism and good fellowship, will spread the gospel of shooting fun and shooting skill—for recreation and for national defense. ♦ ♦ ♦

Lead On Running Game

By FRANCIS E. SELL

IF YOU WANT A REAL ARGUMENT, just tell a group of hunters how much you lead a running deer at 100 yards. You will find the camp divided into two factions—those who lead them, and those who kill all their game without lead regardless of range!



Uncle Jim, who is forever killing deer at 300 and 400 yards with his .30-30, very seldom leads his game. "That bullet," he will tell you, "gets there quicker than a cat can spit. You don't have to worry none about lead." The old gentleman is honest in his conviction and is deadly in the woods; but not, of course, at 300 yards. I have hunted with Uncle Jim a lot and it always irked me to hear him tell about his long-range kills without lead. The trouble was, he usually had a buck to clinch his story! . . . But Uncle Jim never reports the times when he misses deer running broadside to him at 100 yards!

Lead on running game will vary with the individual hunter, even though the factor of speed is constant. Individual reactions account for this. There are hunters whose reactions are fast, and those whose reactions are comparatively slow.

The 170-grain .30-30 bullet requires 0.14 second to travel 100 yards. The 150-grain .30-'06 bullet takes 0.10 second to cover the same distance. Figuring it on a mathematical basis, the following tables apply:

Woods speed of deer	Lead at 50 yards		Lead at 100 yards	
	.30-.30	.30-'06	.30-.30	.30-'06
Fast run: 17.04 m.p.h.	1'9"	1'3"	3'6"	2'6"
Bouncing run: 10.22 m.p.h.	1'	9"	2'1"	1'6"
Trot: 6.8 m.p.h.	8"	6"	1'4"	1'
Creeping walk: 3.4 m.p.h.	4"	3"	8"	6"

Other calibers which have approximately the same flight time over 100 yards as the 150-grain .30-'06 are: The .250-3000 with the 87-grain bullet, and the .257 Roberts with the 100-grain bullet.

Loads which have approximately the same flight interval as the .30-30 with the 170-grain bullet are: The .25-35 with 117-grain bullet, the .30-'06 with 220-grain bullet, and the .35 Remington with 200-grain bullet.

Carry the above figures out to 300 and 400 yards, and you will see that killing running game at those ranges is something in the nature of a miracle, due to the almost fantastic leads required. The lead at 100 yards is plenty long. It should be remembered though that the lead as indicated is not that amount of allowance required ahead of the running game; it is the lead required ahead of the point of desired impact in the shoulder area. (Consider this target area, not as a twelve-inch circle or disc, but as a ball twelve inches in diameter. Then it becomes apparent that, regardless of the angle at which the deer is running, this target is always exposed to the hunter, except when the game is running directly away.)

The extreme lead at 100 yards with the slower calibers and loads, with the deer running at right angles to the rifleman, would be taken care of partly by this twelve-inch target. From the center of the target to the front of the chest on a large deer is approximately twelve inches. A hunter holding just even with the nose of the deer would be quite sure of a hit in a vital area if the deer were traveling at the average high speed of 17.04 miles an hour.

Such high speed in the woods, however, is more often encountered at close quarters. A deer must be jumped at extremely short range to extend itself. The average woods speed will be around the 10.22 mark, and the average shot will be around fifty yards.

While the lead is longest on game running at a right angle to the hunter, the shot is not as common as others the rifleman will encounter in brush hunting. When a deer is jumped, it tries to escape the hunter, and moves away from him. Usually there will be little opportunity for a broadside shot. If the hunter is on a stand, the deer is moving toward him. Either shot will require much less lead than when the game is running at a right angle.

In making shots of this nature, we have *apparent* and not *actual* speed to contend with. If the game is jumped fifty feet to the right of the hunter and in escaping runs out a ridge, moving to the hunter's left, the actual speed of the deer may be 10.22 miles per hour but the *apparent* speed is much less.

Suppose the distance covered was 100 feet to the left in reaching the next cover. In moving through this opening, the deer covers 100 yards from the point where he was jumped. This at the rate of 10.22 miles per hour. But the game is running at an angle, and from the hunter's viewpoint is not traveling at 10.22 miles per hour. At 10.22 miles per hour, the game would cover 300 feet in twenty seconds. But the *apparent* speed would be 100 feet in the same length of time, or at the rate of 3.4 miles per hour.

In this case, the lead, with the .30 Winchester 170-grain bullet, would be eight inches at 100 yards (instead of two feet, one inch), and about four inches at fifty yards (instead of one foot). The .30-'06 150-grain bullet would require about six inches and three inches respectively for the same two ranges.

The acute angle at which most shots are taken accounts for the conviction of many hunters that no lead is required. Whether the game is moving away from the rifleman or toward him, the twelve-inch vital target is large enough to take care of the lead in most cases. Woods ranges are short, and at the longer ranges the shooting is much more deliberate, targets slower. In making these shots, it is obvious the bullet must enter the body at a different point to reach the twelve-inch vital area, than if the game were running broadside to the hunter.

While the apparent speed of the game would be much slower

than the actual speed, the movement of the deer is in no wise decreased. The rate he is bouncing across that opening is the same. A hunter making the shot still has the upward and downward movement of the game to contend with. The only solution to this problem, as I see it, is to take the game while it is on the ground or at the highest point of its bounce.

Swinging the rifle with the game to obtain the correct lead is not always practical in woods hunting. When a rifleman attempts it, he will find that the dense growth of trees and brush will often make him lose sight of the game. It is best to get the sights on the more open woods ahead of the game. The interval used in doing this is taken up by the deer in arriving on the ground which the hunter has selected for the kill. Usually this ground is only slightly ahead of the deer, but it gives the rifleman a little more time to get on his target.

In taking these targets at an acute angle to the line of flight, the same condition obtains as shooting up or down a steep hill. The target is foreshortened. This is a fertile cause of wounding and should be given plenty of thought by the hunter. It is axiomatic that a rifle is inclined to overshoot downhill and undershoot uphill. When the deer is going almost directly away, there is the possibility of leading the animal too much because the target is foreshortened. When the game is angling across and toward the hunter, many deer are wounded because the hold is not far enough toward the point of the shoulder. This error is due to the foreshortened appearance of the target as well as to its apparent speed.

After all the mechanics of lead are considered, there are other factors which affect the shooting of running game. The individual's reactions must be taken into consideration. No two hunters will respond in the same time interval, nor will they be in agreement about the range. One will be emphatic about how much he leads the game at 100 yards and in complete disagreement with the other. Both may be right, after a fashion. For the shooter leads to compensate not only for the movement of the game, but for his individual time lag. Woods ranges being short, errors in estimation are usually taken care of by the size of the target.

Most hunters are inclined to overestimate the range at which they shoot deer. Many times, I have stepped off a range estimated to be 100 yards and found it to be nearer sixty. Time lag is seldom considered, and, when it is, it is usually underestimated.

There is a simple experiment which will prove the existence of this time lag. Make a mark on a wall level with the barrel of your rifle when it is at your shoulder in the offhand position. After examining the rifle to see that it isn't loaded, cock the gun and point it at the mark with the barrel about six inches or so from the wall. Have someone standing slightly in front of you extend his hand so it will be over the barrel of the rifle, and about sixteen inches above it. You watch his hand. You will have exceptionally fast reaction if you can snap your rifle (i.e., fire) before he can bring his hand down and knock the barrel away from the target. Keep increasing the distance between his hand and the barrel until you can snap the rifle at the target before he disturbs your aim.

This time lag, obviously, has nothing to do with the interval spent in getting on the target. It is the lag from the time the rifleman wants to shoot, and the actual time he takes to get the shot off. It will vary with the individual, and to the same extent lead will vary on moving targets.

A hunter who is wounding game, requiring second shots to finish his kill, is usually a man whose reaction time is slower than he believes it is. To a certain extent this may be inherent, but far more commonly it indicates lack of skill. It can be reduced by practice; but a certain amount of lag is always present, and the difference in the amount of it will keep any two hunters from agreeing on the proper lead on running game.

There is one subject which they *will* agree upon, however; that is the necessity for a clean kill. And that will definitely limit the range—not so much from lack of killing power, but from the standpoint of accuracy.

It is hard for any hunter, regardless of his experience, to estimate range correctly. The longer the distance, the greater the chance for error in range estimation—and, consequently, in lead required. Rough terrain, bad light, and the difficulty of gauging correctly the animal's angle of travel in relation to the shot—all add to the problem. In the woods where the light is subdued distances are particularly deceptive; and, while woods ranges are usually short, there will be a few exceptional times when deer are sighted at 150 or 200 yards. If they are put up by another hunter, they may be moving fast. A rifleman taking such a shot must be able to estimate a long lead accurately, and will not have any part of his target as an aiming point. When one considers how hard it is to estimate even the comparatively short ranges accurately, how improbable an accurate estimate of lead at 200 yards appears. Multiply this to allow for the three-and-four-hundred-yard shots one hears about, and the odds against mount very high.

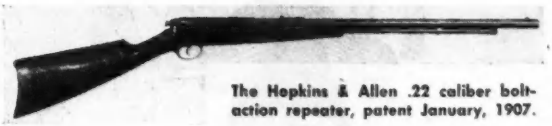
I personally feel that there isn't one hunter in 10,000 who will kill running game consistently at that range. I know I have no such skill and I pass up such shots. It seems to me that the hunter is gambling against impractical odds when he shoots at running game beyond about 125 yards—depending, of course, on the speed of the game. Just so long as a rifleman can have some part of the deer as an aiming point in leading it, he can be reasonably sure of a clean kill. But the moment he must move his sights ahead of the target entirely in order to compensate for the speed he is letting himself in for plenty of trouble in tracking wounded game! ♦ ♦ ♦

BEAR SPEED

Don't annoy a bear unless you can run faster than eighteen miles an hour!

Jim Roa, the North Carolina State News Bureau informs us, was driving his car along an old swamp between two deep canals when he came upon a bear in the road. Apparently having an aversion to cold water, the bear trotted ahead. Jim speeded up. The bear increased his pace, which reached eighteen miles an hour before the animal gave up the race and jumped overboard.

FIRST OF ITS KIND?



The Hopkins & Allen .22 caliber bolt-action repeater, patent January, 1907.

Is this the "granddaddy" of the .22 caliber bolt-action tubular-magazine repeating rifles now on the market?

I find that the current models of this type date as follows:

Mossberg Model R	1930	Savage Model 5	1936
Stevens Model 66	1930	Marlin Model 81	1937
Remington Model 34	1934	Winchester Model 72	1938

Does anybody know of any older ones?—Irving Laird.

The Low-Priced Scope

By FRANK DE HAAS

THE TELESCOPE SIGHT secured a foothold in the shooting game years ago; and today, to many shooters, this type of sight is not merely an accessory but a necessary part of a rifle. This is especially true among shooters whose imperfect vision makes the use of iron sights impractical.

Yet some shooters still think of scopes as "gadgets," of doubtful worth, impractical for any use other than (possibly) super-accurate target shooting. Others think that no scope can be any good unless it costs a fat roll of folding money.

Both ideas are wrong.

Low-priced scopes (and by that I mean scopes costing fifteen dollars or less) have a very real and worth-while place in the shooting game. Such scopes include the Mossbergs, the Weavers, the Marlins, the Lymans, the Wollensaks, et cetera. It should also include scopes sold by several of the big mail-order houses. These range from the Weaver 29S (priced as low as $10.79) down to a four-power (4X) Ranger "with a mount that stays put," for only $2.95—or even less than that on "special sale." What a lot of scopes must have been sold at those prices!

I have owned and used most of the low-priced scopes; have never owned a scope that cost me more than fifteen dollars. Right now, I have six rifles equipped with low-priced scopes: A heavy Winchester .25-20 SS with a Marlin 4X scope on an altered Mossberg mount; a .22 Bull Pup with a Mossberg Model 5M4 in mounts I made myself; a Winchester SS .22 Lovell with a Weaver 329 in my own mounts; a Winchester SS K-Hornet Jr. with a Weaver 333 in my own mounts; a Winchester 69A Sporter with a Weaver 29S, also in my own mounts; and a small .25 caliber rifle that I recently rigged up and mounted with a Winchester 2¾X scope.

I use these rifles a good deal, enough really to know them, and I believe that most of the criticism of scope sights by shooters who have tried them comes from one of three causes: (1) Either the rifle used was not suited for a scope (or not suited for the scope used); (2) or the scope was not mounted properly (probably in a mount inadequate in strength); or (3) difficulty in getting the scope sighted in and keeping it sighted in, due to inexperience on the part of the shooter, convinced him that the gadget wasn't worth the trouble it required.

Too, there is a lot of confusion about what scope to buy. Advertisements are written to sell merchandise, and when the low-priced-scope idea hit the country there was a profusion of ads offering scopes with all sorts of "special features"—scopes with fearsome-looking side mounts by which the scope could be attached, detached, raised to allow the use of iron sights, or lowered into shooting position by a simple twist of the wrist; scopes with exchangeable lenses, offering anything from three to eight power at will; range-finder scopes; scopes with double reticules, sunshades, rubber eyecups—all kinds of gadgets and gadgets on gadgets, most of them useless. Some of them, though, looked good on paper and it is no wonder that there was a lot of uncertainty about which scope to buy and a lot of disappointed customers.

Actually, most of these scopes were, and are, good enough in themselves. The main fault in most low-priced scope outfits is in the mounts. I have doctored up, remodeled, or replaced many such mounts, and I never cease to be puzzled as to why some of them were made as they were! The fine Mossberg 5M4 scope, for example, was sold at first with a clumsy mount that actually cost the makers more than a better mount would have done! I have remodeled (and improved!) several of those mounts by leaving out five parts and making a sixth part simpler! Of course, the mount I had left did lack one thing that was advertised as a feature of the original mount—it was not "so flexible that, if a perfect job of mounting is not (or cannot) be done, the mount can easily be bent to correct the error!" But it was a better job to shoot through, and the rifle so fitted was easier to carry. So mounted, or mounted in a pair of modern ring mounts, that Mossberg 5M4 is one of the best and one of the cheapest outfits you can buy.

"Maybe this hyar deevice ain't meant for double-bar'l guns, pa. It ain't gonna help yer feudin' none less'n yuh kin larn t' use it without gettin' yer eyes criss-crossed like that."

Some of the things every shooter wants in a scope mount are strength, simplicity, neatness, and (especially in a target mount) easy and accurate adjustments. Strength comes first. Under simplicity and neatness come such points as light weight, absence of projections, few parts, and a good blue finish. Still another highly desirable feature is easy attachment and removal of the scope to or from the mount.

Some mounts in the low-price field include many of these desirable features. For the popular, short, internal-adjustable scopes like the Weaver, there are several. The Weaver T-mount is very low in price, simple, amply strong for average use, and is easy to mount. I have used some of these mounts for several years and have very few faults to find with them. They can be fitted to most rifles. I *would* like to see them made of a little heavier material, so they could not be bent so easily—and with the base a bit longer to make the rings an inch farther apart.

The Albree Twinmount is another that I like very much. In fact, I would like to see it furnished with all internal adjustable scopes. It has plenty of strength and one couldn't wish for a lighter, smaller, neater mount.

The Weaver B-mount is an extra strong mount for the big rifles, but is equally useful on light .22's. I like any mount that has an extra margin of strength. I think this B-mount might be improved if it were fastened to the rifle like the Albree. This would make it easier to mount—but less easy to take off.

Fray-Mershon makes a low-cost bracket mount very well suited for Weaver scopes. It is made of Dural metal; is very neat and light.

The Redfield Junior mount must not be forgotten, although it is a bit too high priced for the fellow who has only a ten-spot to spend for both scope and mount. If a mount were made like the Junior, but with the rings welded to the base or in one piece, I'm sure the price could be kept within five dollars and I believe it would be very popular.

There is also the recently new Hill mount which I have not used, but which seems to have everything, to recommend it. It is in the price level of the Redfield Junior mount. I have made similar mounts myself with the rings welded to the base, and they really do stand up and hold their zero very well.

Speaking of mounts for internal-adjusted scopes, someone should manufacture a good five-dollar, quick-removal-type mount of the springboard principle for light .22 rifles. I'm sure this can be done. A light base four and five inches long with a flat V at each end, containing a flat or round spring that engages a ring or band around the middle of the scope, would do it.

We need adjustable mounts, too, for the longer scopes that are without internal adjustments. There are quite a few of these in the lower price range. But these two-piece target-type mounts have many faults when they are carried into the hunting field. Among other things, they are difficult to mount correctly if the rifle is not already drilled and tapped for them. Except for strictly target rifles, I vote against them. However, they could be much improved. If they were made of steel, to hold the scope much lower, with or without bases, with smaller lockable adjusting knobs on the rear mount, and with a better arrangement in the front mount to prevent the scope from rotating, most of their present faults would be cured. (My idea for this type of mounting is simple. The front and rear mounts, both made smaller and of steel, are attached to the ends of a seven-inch concave base or a flat rib, or else made all in one piece. This base or rib is then screwed directly to the barrel, receiver, or both, as the case may be. This simplifies mounting and makes a very strong and neat mount.)

As to the scopes themselves, disregarding entirely the mounts usually sold with them, I think the Weaver 29S is the outstanding low-priced telescope rifle sight. It is well-nigh faultless. The only improvement I can suggest is some protection for the adjusting knobs. This goes also for the Weaver Models 333, 344, and 355.

(Personally, I'd like to see a good 6X scope in the low-priced field; a short, internal-adjusted model, perhaps with an enlarged objective.)

The Weaver Model 329 is worthy of attention. My first scope was the 329 Wee Weaver, and it has improved a lot since that time. I'd like to see it go one more step—improved optics. Could not this be done without boosting the price? Mossberg made scopes with better optics for even less money. Even so, this little scope has guts.

Mossberg scopes, as a rule, have good optics, as have the Carolyn, Marlin, Wollensak, and many of the mail-order scopes. Most all of these scopes have brass tubes with a painted finish. Blued steel tubes would suit me better, especially on all 4S scopes. The Mossberg 5M4 with internal adjustments is a good scope as is, for it has a steel tube. Its narrow field of view could be widened and the scope shortened, to make it an ideal scope for light .22 plinking rifles.

Winchester scopes deserve attention, too. They are made in 2¾X, 5X, and 8X. The 8X is certainly low priced enough, but I would like to see this model, as well as the other two, improved in optics.

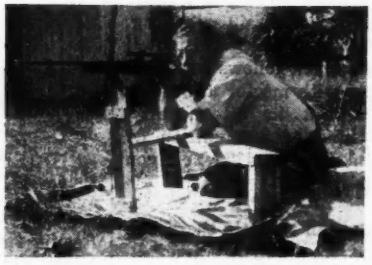
I have seen several brass-tubed scopes that were not assembled correctly when new. In some, the objective was in backward. In others, it was loose. The lens in the sleeve is also sometimes loose. On several Mossberg 2½X scopes, I have filed one-eighth of an inch off the outside tube, putting the objective lens closer to the sleeve assembly and improving the clearness. This has also helped on one Winchester that I recently bought. Sometimes the cross hair could not be focused because the adjusting slot in the tube was not long enough and it had to be cut longer. These cases are rare, but it is sometimes little things that spoil an otherwise good scope.

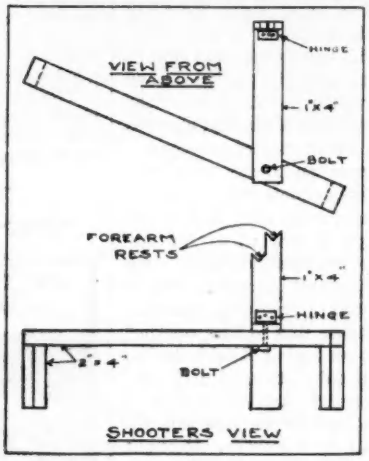
Just as there is a place for a 6X scope, there is also a place in the low-price field of scopes for a 1X scope to be used on shotguns or on rifle-shotgun combinations. (And, wouldn't it be nice if we could get a center dot instead of the regular plain cross hair without extra cost?)

Wouldn't it be fine, too, if all scope mounts were drilled the same for mounting, so that mounts could be interchanged? This is important in the entire field of rifles and scopes, but especially so, I think, for the lower-priced .22 rifles and scopes.

Great strides have been made in the past few years to adapt scopes to the needs of the shooter and to design rifles suitable to the use of scopes. This seems to me to be prophetic and I believe the scope will play an even greater part in the shooting game of the future. ◆ ◆ ◆

A PORTABLE BENCH REST





Most bench rests are bulky, expensive to purchase, or difficult to build. Here is one that has none of these faults. It is simple, costs practically nothing, can be made of scrap in fifteen or twenty minutes by nearly anyone, yet the designer maintains that it is amply effective.

The shooter sits on the ground, his weight—or most of it—resting on his elbows on the crosspiece. When the day's shooting is done, the rest can be folded up and carried easily by hand or in a car.—By *Frank R. Clark*.

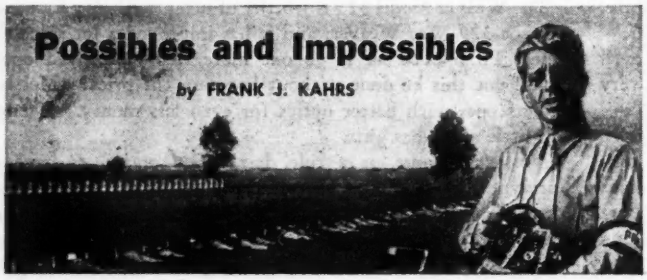
A PAPER FOR PEOPLE WHO SHOOT

Rifle

Remin

VOL. 8, NO. 7

BRIDGEPORT, CONNECTIC



PICKED UP a bit of interesting information from a chap the other day which concerned a bandanna handkerchief that hangs in the museum at the West Point Military Academy.

On this handkerchief are printed instructions for the Remington Model 1871 rolling block action rifle, picked up on Negros Island in the Philippines and used in connection with the instruction of native troops, meaning perhaps the Philippine constabulary. Interesting indeed.

* * *

I got quite a thrill the other day in reading a story about the winning of the Hearst Team Trophy for 1945 by a school team at Manlius, New York. They have a rifle team up there that's a honey! In fact, they have two teams.

The first team won the championship with a total team score of 949. The second team was third place winner of the Second Service Command with 925. In this match, you know, the boys fire 10 shots in the four positions. The queer thing about it is that in the prone position the boys totaled 235, in the sitting position 241, in the kneeling position 240, and in the difficult standing position 233.

Now notice that the standing score was only two points less than the prone score and that both the sitting and the kneeling position scores were higher by 5 and 6 points respectively. Don't know what happened to the prone shooting, but for boys who shoot in that championship form, they certainly lost too much on prone. However, this does not detract one iota from the fact that the team won and with a darn good score.

Furthermore, the high individual score was made by a member of this team with a total of 193 out of a possible 200. His scores were 48 prone, 48 sitting, 48 kneeling and 49 standing. That's what I call consistency!

I'm sure you fellows out there will bear with me for a moment while I ask in all modesty, "What kind of ammunition do you think they used?" Yep, you guessed it.

* * *

In my mail recently there was a letter from a well-known small-bore shot from Italy formerly from Philadelphia. Among other things he mentioned that one of the most interesting things he has seen recently is the range near Rome on which Mussolini planned to hold international matches.

He went on to say that it is the most complete set-up that he has ever seen and thinks we could get a few ideas for our own postwar competitions. He stated that it certainly would eliminate any change of schedule for matches due to bad weather such as we had at Ritchie in '41.

He promises to send a picture of the range, and if he does it and it can be reproduced, I'll show it to you fellows. It ought to be interesting. Thanks, pal, for sending in the dope.

* * *

It's an old one, but still good, so here it is:

It concerns a typical rifle shooter who was asked to explain a low shot that kept him from going clean in an offhand match. He answered, "Well, just as I was squeezing off the last shot, my arches collapsed, and I got a low four at 6 o'clock."

CLUBS GET NE
OF JUNIOR RI

Remington Model 513T Target Rifle
Best for Junior Rifle Instructio

BRIDGEPORT, CONN., July, 1945.—When target rifles are available again, junior members of rifle clubs will want the Remington Model 513T Matchmaster target rifle. Here is an inexpensive rifle, accurate, ideally suited to the purse and need of a boy engaged in marksmanship.

The Model 513T reflects precision craftsmanship, from butt plate to muzzle. It is equipped with adjustable sights, the new Remington easy-operating bo and a detachable six-shot ma azine. It has an adjusta trigger stop for smooth, cr short trigger pull, and the hi thick comb runs straight ba to the heel of the stock to a able the eye to find the sig and hold the aim easily a naturally.

For further details, write a free, descriptive folder. A dress: Rifle Promotion Sect Remington Arms Co., In Bridgeport 2, Conn.

THERE'S ONE IN EVERY CLUB . . . *The Helping Hand*

emington DUPONT News

WEATHER:
PERFECT SHOOTING
WEATHER PREVAILS

RT, CONNECTICUT, JULY, 1945 — First Class Reading Matter for Rifle Shooters

NEW BLOOD BY PROMOTION RIFLE SHOOTING ACTIVITIES

BOYS ARE ENTHUSIASTIC when taught proper handling of a rifle by a group of experts. By setting aside a small portion of the range, junior instruction does not interfere with regular club activities.

Appoint Committee to Plan Junior Program

MIDDLETOWN, U.S.A., July, 1945.—Clubs have found that the success of a junior rifle shooting program has been due to the efforts and interest of a committee of experienced club members appointed to accept the responsibility of the group and to assure proper guidance.

When your club makes arrangements to incorporate a junior program one of your first acts should be to appoint a committee to counsel the group. This committee should shoulder the responsibility of conducting a safe, well-planned training program suited to boys, working out the schedule for use of the range, and planning a competitive program.

Father-Son Shoot Makes Keen Sport

CENTERVILLE, U.S.A., July, 1945.—One rifle club has inaugurated an annual Father-and-Son shoot successfully and plans to continue it as long as interest runs high. They have an individual Junior Championship, Senior Championship and Father-and-Son Championship.

One factor to be considered in a Father-and-Son shoot is that the dads sometimes forget that their years of experience on the range gives them an advantage. In all fairness to the youngsters, the pops should handicap themselves, to give the kids a break. And men without sons get a kick out of selecting a "fatherless" boy from the juniors and adopting him for the day.

Remington 500 Series Rifles Help Early Training of Boys

BRIDGEPORT, CONN., July, 1945.—Some clubs have found it economical, and satisfactory, to equip their junior members with Remington "500" series rifles. These are inexpensive rifles but thev are accurate and very dependable. There's the Model 510 Targetmaster, single shot 22; the Model 511 Scoremaster, bolt action box magazine repeater, and the Model 512 Sportmaster, bolt action tubular magazine repeating rifle. When rifles are available again, consider the Remington 500 series for your juniors.

Matchmaster, Sportmaster, Scoremaster and Targetmaster are Reg. U. S. Pat. Off. by Remington Arms Co., Inc., Bridgeport 2, Conn.

BOYS LEARNING TO SHOOT SHOULD BE PROPERLY GUIDED

MIDDLETOWN, U.S.A., July, 1945.—It is just as natural for a boy to want to shoot as it is for him to want to play baseball or football. And it is just as natural that the fostering organizations should be local rifle clubs.

Throughout the country, many active and alert clubs, with one eye on the future of American youth and the other on the continuation of their own clubs, have sponsored junior rifle shooting, and quite successfully, too. Once a boy learns to shoot at paper targets, he desires to keep at it. This builds a continuous source of new members for rifle clubs.

This potential source of shooters is not limited to the sons and nephews of rifle club members. A canvass of local 4-H Clubs, Boy Scout Troops, Boys' Clubs, YMCA's and High Schools would unquestionably turn up a large number of boys who want to learn to shoot.

The formation of a program for junior rifle shooters within a club does not pose as many problems as you might imagine. Probably the best plan for organization is to appoint one or two experienced members to supervise the junior activities; men who will not only like the boys, but whom the boys will look to with admiration and respect.

Part of the range should be allocated for their use, or certain times set aside for their instruction and use of the range. In no time at all, with careful and patient supervision, you have a well-knit group of useful sharpshooters.

Clay Pigeons that Shoot Back

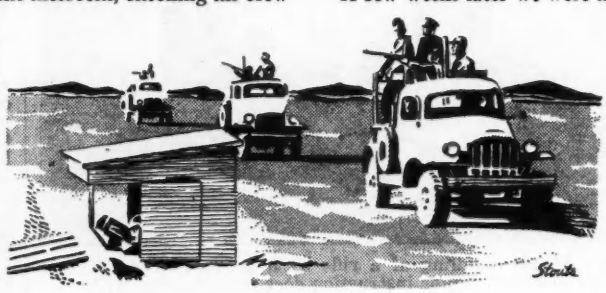
(Continued from page 9)

flames and it burned just as a piece of tin foil or celluloid would burn. I watched it plummet earthward and then I jumped to the left waist window. The ship on our left wing had been badly hit, too. Smoke was gushing from its Number Two engine and the crew members were already scrambling to the waist windows and escape hatches. I could see them jumping, and soon the air was filled with little white blotches which were the parachutes of those who were lucky enough to get clear. As the chutes whirled by us, we could see the figures of the men swinging like pendulums, unable to control the big silk canopies in the swirling currents of air that surrounded them.

Like a summer thunderstorm, the battle ended suddenly. We looked around us and counted our losses and found we were the only remaining ship of our flight. Our pilot had to "throw on the coal" to our already overworked engines and try to catch up with the rest our formation. We had borne the brunt of the enemy's defensive action, and we had suffered. The only satisfaction we had for our losses was in the knowledge that Flights Three and Four, soon to follow, shouldn't have too many Jerry fighters swarming down on them before they could unload their eggs, for the Jerries, too, had paid a heavy toll. Before our lost bombers fell, their gunners—some of whom had hit the silk to what we hoped would be safety, and some of whom we'd never see again—had scored. One of Herr Hitler's elite fighter groups needed plenty of replacements of both planes and pilots!

Our skipper's voice came over the intercom, checking his crew and the damage sustained. But it was a short recess. The nose gunner interrupted the skipper to point out a burst of small black puffs dead ahead. We all knew the answer to that one—FLAK! And how we hated it!

A moment before, we'd been looking proudly down at the smoking ruins of the airdrome we had been sent to destroy.



Now, the AA Heinies were showing us there were still a few 88's and 120's which we hadn't knocked out! Their range was pretty accurate and the "sausage factory" guardians were letting us have the works!

It was not pleasant. Flak is nasty stuff! . . . There is just about nothing a fellow can do about it but sweat it out—and pray like hell! In a fighter attack, you can hit back; but against ground fire the best gunner in the AAF is just a fuming frustrated kid!

We got through it somehow and out of their patterns. Then the tail gunner buzzed the interphone: "Four of 'em at 10 o'clock—coming in—and fast!"

Good Lord! Jerry fighters again! And we had an engine gone, the prop feathered! Out of one hell—into another—and back to the first again! My pores immediately gave me another sweat bath, but I automatically slid a fresh batch of plates into the old picture box, and glanced over at Tom and Blinky. They had assumed their characteristic firing poses—and Blinky had stopped blinking. He forgot that little nervous habit when he was peering over those pet .50's of his! "Here we go again," I thought. "Maybe these negatives will be smashed into a million pieces, but as long as the guns are manned this is what I'm here for!"

Suddenly my earphones almost tore my drums apart! Our navigator, chiseling in on the precious space in the ball turret, had identified the fast-closing single-engine jobs. "P51's," he screamed into the intercom. "Allah and Hap Arnold be praised! Here come the prettiest pieces of flying junk in the whole g--d--- world. . . . Don't shoot! They've come to tuck Baby safely in bed!"

A few weeks later we were informed that our group had been awarded a Presidential Citation for the work we had done on our target that day. There was no special mention of the work our gunners did—but we knew. And I feel safe in saying the Nazi High Command knew, too—and did a heap of griping over the way American gunners can shoot! ♦ ♦ ♦

SERVICE MAN POLL

AN ARCHITECT NAMED UNCLE SAM has built an outdoor living room into the postwar design for living of nearly 40 per cent of the 1,503 servicemen from thirty-seven states recently interviewed by the N. Y. State Conservation Department. Such was disclosed today by the tabulation of statistics obtained by the Department's Bureau of Conservation Education at the National Sportsmen's Show in New York City. The servicemen were interviewed in an attempt to determine how much added pressure can be expected on the state's outdoor resources after the war by men who, prior to training in the use of arms and camp equipment, never had hunted.

"The interviews show beyond little doubt," said Commissioner Skiff, "that the boys in general plan to spend more time outdoors. The majority want to hunt pheasants and deer, fish for trout, and have plenty of places to camp.

"The Army says," he added, "that *less than 3 per cent ever handled sporting arms before the war.* That one was hard for us to take, but we believe it now. Now, they're so anxious to try their new skills that a surprisingly large number of those interviewed said they thought Uncle Sam either should give 'em first crack at the government's huge stock of outdoor equipment when it's available for sale or retain special reserve supplies for servicemen."

Most controversial of the issues mentioned by the servicemen was that concerning the use of the government's automatic rifles for deer hunting. A total of sixty-two men raised the question and almost exactly half expressed the belief that, regardless of whether these rifles were suitable for deer, they should be banned anyway because "of potential danger in unskilled hands."

—*Rally Sheet,* League of Maryland Sportsmen. ♦ ♦ ♦

Rebuilding the Model 94

(*Continued from page* 19)

putting the tailstock center at the point where the drill is to come out never fails. The hole goes clear through the grip, and is enlarged from the front to take the bushing projection.

To assemble the stock in place on the gun, I started the long screw in the block and put the gun together as before, tightening the butt screw only after the tang screw was set down snug and firm, drawing the tangs against the ends of the block. My stock is now "ringing tight," and will stay that way. I have never seen a simpler way of doing this job.

My next important job was on the front barrel band. Most of these carbines show a tendency to keep loosening this band. This is no doubt due to the torque set up counter to the bullet as it leaves the muzzle. In order to get real accuracy, this slippage should be stopped. I have had some real arguments with regard to this, and I insist that the full-length magazine beneath the barrel of the 94 Model Winchester really give it much stability. It has a tendency to absorb "whip" which is often a fault with such light barrels. To get the most out of this weight holding the band, the band must be more than tight; it must be *part* of the barrel.

So I proceeded to fit the front band firmly to the barrel. This I did by carefully scraping and cleaning the contacting surfaces of the barrel band and barrel, and sweating them in place. I gave the band a very thin but even coating of 50-50 solder, wiping it carefully while still hot. This done, I polished a corresponding circle around my barrel and ran another very thin coat of solder on that, taking care to make the polished spot narrower than my barrel band so that no hint of solder would ever show on the finished job. I next slid the barrel band to place and past the ramp, then assembled the magazine parts.

On the new model barrels with a ramp, it is necessary to put the band behind the ramp. To do this you must put the band on turned up (B) so the cutout can pass the ramp. Then invert it (C) back of the ramp.

I then heated the band with a Bunsen flame just enough to cause the solder to melt and adhere to that on the barrel, then drew the locking screw down tightly. (Caution: Don't apply more heat than is necessary.) Now each shot leaving the barrel will get the same torque reaction.

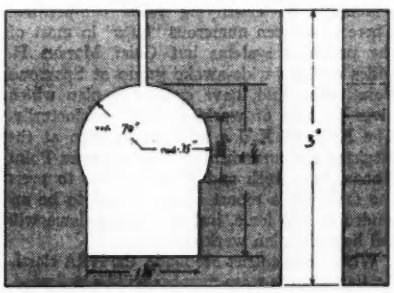
My next job was to make a new locking bolt. While I could have bought a new one for only $1.20, I wanted to be absolutely certain of being able to set my head space exactly where it should be. I knew that any gun that had been used so long and hard out in New Mexico's sand would have the vertical slots for the locking bolt, as well as the back of its breechblock, somewhat worn. To compensate for such wear, I made my new bolt rather thick and fitted it. There is nothing hard about making it if reasonable care is taken, although a means of milling will be necessary. It was made of molybdenum steel with 42 per cent carbon quenched at 1,550 and drawn at 800. Final fitting was done by stoning and lapping. Before checking for head spacing, I found the front breechblock needed a slight shortening on account of the recess for the cartridge head being too deep. I adjusted this and then fitted the head space until a .002 shim made the action close hard on a maximum case head. The bolt now bears against the case head, not the rear of the barrel.

"So you're a radio-gunner, hey? From now on, Mister, you're a radio-man, period!"

For a rear sight, my choice was a micrometer that had been used on a Model 75 Winchester .22. A metal block was screwed firmly to the left of the receiver, putting the sight arm about one-eighth inch above the breechblock. The line of sight is, of course, above this as the sighting disk fits into a block above the horizontal arm. In setting the sight, I allowed just enough space between this sight arm and the breechblock for clearance to keep the block from rubbing in sliding back and forth.

I wound up my remodeling job by checkering the stock and fore-end, and by reblueing all worn metal parts. This done to my satisfaction, I fired a few shots to line up my sights, then settled myself to test for accuracy. Of course, I expected it to be accurate with that new barrel and its rigid stock, but I didn't expect what I got! While the .25-35 cartridge is well known for its accuracy by experienced shooters everywhere, this gun of mine is now the most accurate one of its kind that I have ever fired. And, in spite of more than thirty-two years of hard use, it is once more ready to take its accustomed place in my saddle scabbard when I start out after deer again. ◆ ◆ ◆

BARREL REMOVER



This is a barrel-removing gadget that works. It was designed by J. C. Nix of Washington, D. C., and is heartily endorsed by A. H. Barr of the NRA Technical Division, who knows about such things.

The drawing gives oversize dimensions which permit the use of this one device on Springfield, Enfield and Mauser receivers. It may, of course, be made up to fit any particular action. But slightly oversize dimensions make one gadget fit several different actions, and/or permits the use of copper or brass shims, cloth or leather protective materials to take up slack and ease wear and tear on receiver polish.

The barrel is placed in the barrel clamp in the usual way and this doodad is placed over the front end of the receiver including the recoil lug, which takes up most of the load, thus relieving the receiver of undue strain. It is then gripped in a heavy wrench. The application of sufficient force in the proper direction on the wrench handle will do the business.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

NRA MAN REPORTS ON GERMAN WEAPONS

Paris, March 6th.

Editor:

I took a few hours off yesterday and went out to an Ordnance range where they have all manner of guns—both ours and the Jerry's. The foreign stuff is all very interesting and most of it very good, too. Yesterday I fired one of the MP 43's and it's quite a gun for semiautomatic fire; not so hot for full auto, for no one seems to be able to hit anything with it on full auto. Spreads them all over the place; not anything like as good as the Thompson or the "grease gun."

The Germans claim a rate of fire for this model of something around 550 per minute but, unless my ear has gone bad, the actual rate is much nearer 400 rounds per minute. It's slow enough so you can feel the bolt picking up the next cartridge from the magazine, and you can't do that if it's firing above 500. Shoots fine from almost any position. I was using it offhand and firing at fifty meters. All we had for a target was an old brass shell case about eight inches across, but that could be hit without any trouble at all. They tell me the velocity is about 2,300 f.s. and the penetration is very good. Our shell case target was hanging by a wire so it swung freely, it was about one-quarter of an inch thick counting both sides and we couldn't tell when we hit it for the bullet went through so fast it didn't even move the shell case. Brass isn't very tough but still I was surprised that the bullet passage didn't move the case. Did I tell you before that all the ammunition for this gun is AP with a mild steel core, thin lead sheath, and jacket?

—Frank Wyman.

"Grease gun"? GI slang for our .45 caliber M3 submachine gun.—Editor.

SEQUEL

France.

Editor:

There's a sequel to that "Cost: One Village" story, although I wasn't on hand to see it—thanks to whatever strange Spirit watches over me. We were up there in the morning and the situation, by the time we left, seemed fairly steady. The Krauts had been pushed back; they were taking it badly, and filling the air with everything they could throw at the Canadians. But no thought of a counterattack. That afternoon they came back and temporarily regained about half of the ground they had lost in the morning. Better than half of the battalion went down, including the major we had talked to in the CP, before the attack was halted. Also, there was another dead German in the street, a sniper, lying a hundred yards or so back of the CP. We must have been in clear range of that bird for an hour!

Bill Christian, who was along on both trips, ran into a funny one a day or so later. Funny, but uncomfortable. Chris was worming his way around in another of those Dutch villages, more or less the same setup. A sniper saw him and a couple of bullets came unpleasantly close. Chris took a header through the window of a partially smashed house. Once in, he found that the only exits were the door and the window he had come in through, both on the sniper's side. Nothing doing. He decided to sit tight, wait it out until dark, or until someone took care of the sniper. After a few minutes, Chris heard voices up on the second floor. Thinking he'd at least have someone to talk to, he headed up the steps. About halfway up he heard a louder bit of conversation. In German! It was about two hours later, with Chris hiding under the stairs and trying not to breathe, that the Canadians got around to cleaning out the top floor of Chris' hideaway. The guy swears he'll never go near a front line again.

Lt. John Scofield.

NRA staffman John Scofield refers to his story, "Cost: One Village," in the March, 1945, AMERICAN RIFLEMAN.—EDITOR.

GUN CABINETS

In response to the many requests for complete working drawings of the gun cabinet shown in the May issue of the RIFLEMAN, Mr. W. J. Patterson, of Salt Lake City, Utah, has been good enough to furnish the Association the plans with permission to have prints made for distribution. The complete working drawings are now available. Price—fifty cents, to cover cost of printing and mailing.

We have no facilities for handling charges or COD's, but we can and gladly will mail the working drawings promptly upon receipt of the remittance. We accept Postage or War Saving Stamps in payment of small amounts.

CHALLENGE

The Postal Rifle Club (W. J. Gilman, Secretary, 1322½ Montana Street, Los Angeles, 26, California) would like to shoot postal matches with other clubs. Iron sights, four-man teams, four positions, targets to be exchanged. Write Mr. Gilman.

CLASSIFYING TEAM MATCHES

The popularity of the NRA National Classification System for pistol and small-bore rifle shooters has resulted in much interest in the possibility of classifying *team* competition. There have been numerous "bugs" in most of the proposed systems but Chief Marcus H. Miles and his wide-awake group at Sparrows Point, Maryland, have evolved a plan which gives promise of working quite satisfactorily. The NRA O. K.'d a trial of the plan at the Registered Tournament at the Sparrows Point Range, June 16th and 17th. We go to press too early for a report of this match to be included in this issue, but the August issue will tell how the plan worked.

When team entries are made, the NRA classification of each team member will be indicated. Each Master will be assigned a classification figure of 93, Experts 91, Sharpshooters 88, and Marksmen 83. The figure used for each class is the top average score for that class in the NRA system, except the Master figure which is approximately the actual top average score of Masters in the National Classification List. These figures will be added together and the total will be divided by the number of men on the team. The average score resulting will show the class in which the team will fire.

This is how it works: A team enters with one Master (93), two Experts (91), and one Marksman (83). Add 93+91+91+83=358.

Divide by 4 (the number of firing members on the team) 358÷4=89.5 (the team average figure).

On the NRA classification scale an average of 89.5 places a man in the Expert Class so this *team* fires in the Expert Class in the team matches. Team members having no NRA classification will be assigned the average figure of 91 (Expert) in accordance with the usual procedure for classifying men at their first tournament.

The system looks promising. It is easy to police, quick and easy to figure, and the team classification can be promptly changed whenever the team personnel changes.

The experiment at Sparrows Point will be watched with much interest and may show the way for popularizing team competition.

NEW D. C. M.

Colonel E. F. ("Tod") Sloan became Director of Civilian Marksmanship early in June, succeeding Colonel Gilbert E. Parker, who was ordered overseas.

News of Colonel Sloan's appointment to the D. C. M. job will come as a very pleasant surprise to the thousands of civilian riflemen who have known him as a member of the Infantry Team, as coach of several civilian rifle teams at the National Matches, and as the NRA field representative on the West Coast.

GAME LAW FOR GI's

Charleston, W. Va.—Game protectors throughout the state have been notified by Chief Game Protector R. S. Harris of the Conservation Commission of the new law, enacted at the recent session of the legislature, permitting members of the nation's armed forces while on leave or furlough in the state to fish and hunt in season without first obtaining a license. The act, passed March 2, was made effective from passage. It reads:

"All members of the armed forces of the United States of America shall have the rights and privileges of hunting and fishing in season without state or county hunting and fishing license while on leave or furlough. Leave or furlough papers shall serve in lieu of regularly issued state hunting and fishing license, in any county within the state of West Virginia."

The bill was introduced by Delegate I. L. Cavender, of Kanawha County.

BOOK REVIEW

PRINCIPLES OF FIREARMS

MAJ. CHARLES E. BALLEISEN, Ord. Dept., USA.

Major Balleisen in his preface says: "The purpose of this book is to expound the concept that an automatic firearm is a piece of machinery operating in accordance with well-known laws of physics and hence capable of being designed in accordance with common engineering practice." In keeping with this announced purpose the text treats mostly of automatic weapons. Perhaps the most accurate description of "Principles of Firearms" is to say that it is a layman's book in engineer's language. It will not make a mechanical engineer out of the average shooter, nor will it make a ballistician or gun designer out of an engineer, but it will serve a useful purpose. It will help guide the shooter-designer into sound engineering channels. It will indicate to the engineer that small-arms design is not nearly so complex as many of the mechanical problems regularly solved by mechanical engineers on a thousand production lines. This war has proved that the mechanical engineer who does not know which end of a gun to load can, by applying generally known engineering data, improve both the design and production rate of weapons long considered standard by their parent manufacturers. Knowing this, it is possible that Major Balleisen hoped, by writing this primer of gun design, to stimulate the interest of many engineers who are outside of the arms industry in the development of new or improved weapons and improved production techniques.

Plowing an entirely new field in American gun books, some understandable mistakes have been made in putting this one together. In the effort to be brief the "Definitions" section becomes a bit obscure and somewhat misleading. Most of the required definitions appear quite naturally and clearly in the text anyhow. The paragraph on "History" is so brief that it might better have been deleted entirely. The chapter on sights is too brief to be of appreciable aid to a designing engineer, and in modern military practice the design of appropriate sights has largely become a problem of the tactician, mathematician, and optical engineer rather than falling in the province of the gun designer. A very brief appendix devoting only nine pages to exterior ballistics and gun mounts is all too brief to be of any real aid to the gun designer or production engineer. Much the same can be said of the chapter on "Testing." It would have been a better book if these pages had been devoted to a more extensive discussion and illustration of the excellent chapters on the purely mechanical features of gun design.

The line drawings used throughout the book are well drawn and easy to understand.

It is to be hoped that enough interest will be shown in this book to warrant the later publication of an enlarged edition developed from suggestions and constructive criticism from the engineers whose gun-designing appetites have been whetted by their wartime contacts.—C. B. L.

(Cloth, 146 pages, 55 line drawings. Price, $2.50. For sale by NRA Book Department.)

STOLEN GUNS

One rifle, US caliber .30, M1 1903, bearing No. 1402263-SA. Owned by the Pierce National Rifle Club (Pierce, Nebraska); George B. Gould, Secretary-Treasurer.

One Colt Woodsman, Number 97249 with white pointer stocks. Cpl. E. L. Korrick, 3100 North 7th Street, Phoenix, Arizona.

COMING EVENTS

California, July 15, August 19, September 16—San Francisco Police Monthly Pistol Tournament, San Francisco. E. J. Dutil, 324 16th Avenue, San Francisco.

Indiana, July 15, August 19—Small Bore Tournament, Michigan City. W. S. Heise, 333 Warren Building, Michigan City.

Iowa, August 12—Iowa State Rifle Association Pistol Tournament, Bettendorf. Carl Prevratil, 2018 W. 10th Street, Davenport.

Illinois, July 15—Outdoor Pistol Tournament, Lincolnwood. R. W. Maloney, 5553 W. Grace Street, Chicago 41.

September 9—Pistol Match, Deerfield. Robert Billeter, 936 Wade Street, Highland Park.

Michigan, July 8, September 23—Ann Arbor Police Fourth Annual Tournament, Ann Arbor. C. M. Enkemann, Police Dept., Ann Arbor.

New York, July 7-8—Small Bore Rifle, V. B. Cleaver, Grumman Gun Club, Bethpage, L. I. All receipts, including cash prizes and NRA registration fees, to be donated to Red Cross.

Ohio, August 11-12—12th Annual Fort Harmar Open Small Bore Tournament, Marietta. H. W. Meiser, 612 7th Street, Marietta.

August 19—Thompson Trophy Small Bore Outdoor Tournament, Willoughby. S. A. Edgell, 38 River Street, Willoughby.

Pennsylvania, July 14—Kittanning "All Night" Dewar, Kittanning. E. W. Cook, 926 Orr Avenue, Kittanning.

July 29-September 2—Small Bore Tournament, Allentown. Alfred M. Newhard, 111 E. Susquehanna Street, Allentown.

August 5-September 23—Fort Hand Small Bore Tournament, Vandergrift. George W. Rupp, 1029 Hancock Avenue, Vandergrift.

August 19—Tri-Angle League Small Bore, at Chester, Pa., Betty M. O'Brien, 510 N. 52nd St., Philadelphia 31.

.30 Caliber

Illinois, July 8 and 22, August 12 and 26, Sept. 23—Illinois State Association .30 Caliber Matches, Fort Sheridan. Thomas H. Blakemore, 5004 West Huron Street, Chicago 44.

Rush Razee

After thirty-nine years of service with Remington Arms Company, Rush Razee, one of the greatest exhibition shots of all time, died at his Denver, Colorado, home April 21. Equally proficient with rifle, pistol, and shotgun, Mr. Razee was also a great showman and his exhibitions were in constant demand. From 1914 to 1924, he gave shooting exhibitions in almost every state in the union. He was the first trapshooter, amateur or professional, to average above 98 per cent for a season on registered targets. From 1913 to 1931, Mr. Razee shot at 39,555 registered targets, broke 38,350 for an average of .9695. From 1923 to 1942, inclusive, he shot at 37,400 targets breaking 36,428 for an average of .9729.

When asked what he considered his most difficult shot, he replied, "Shooting with two revolvers, holding one upside down about waist high, the other right side up, sighting both with the same mirror, firing both simultaneously, and breaking two targets about twenty-five feet away and six inches apart."

He was seventy-one years of age and had been ill for several months.

James C. Kelsey

An enthusiatic but quiet man, James C. Kelsey probably did more than any other one person to establish civilian-police pistol shooting on a permanent, competitive basis in the Akron area. He was largely responsible for the formation of the Summit County (Ohio) Pistol League and served for many years as its President, Executive Officer or Secretary. He held the latter position when he was killed in a traffic accident in Akron on May third. Long a member of the Goodyear Tire and Rubber Company police department, Mr. Kelsey, aged 63, was employed in the special tool scheduling department of the Goodyear Aircraft Corporation at the time of his death. His tireless energy in the promotion of handgun shooting will be greatly missed.

G. L. Wotkyns

Captain Grosvenor L. Wotkyns, U. S. A., Retired, died of a heart attack at his home in San Francisco on May 5th. He was sixty-three years of age. Captain Wotkyns entered the Ordnance Department from civilian life during World War One and served as an officer in the Department of Experiment, specializing in small-arms ammunition, sighting equipment, and other problems affecting riflemen. He was retired in 1933 and, since then, did a great deal of experimental work in connection with the development of high-velocity small-caliber cartridges. He was a member of the Small Arms Board which conducted the once-famous field-firing tests at Daytona Beach to work out corrected range tables for the 150-grain .30-'06 bullet and which developed the Mark I boattail bullet for the .30-'06 cartridge. He was a member of the NRA Board of Directors from 1920 to 1930.

Henry Dow Banks

Captain Henry Dow Banks, dean of expert riflemen in Rhode Island and for many years Inspector of Small Arms Practice of the Varnum Continentals, died at his home in Warwick, R. I., March 10, 1945. He had been in failing health for several years.

He was born in Springfield, Massachusetts, January 1, 1871; was a charter member of Varnum Continentals, of which he was a Trustee at the time of his death. He rendered outstanding service to his community in training young men in the art of rifle shooting before and during both World Wars.

Captain Banks was a life member of the NRA, a member of the Roger Williams Rifle Club, the Providence Rifle and Revolver Club, and an honorary member of the Rhode Island Riflemen's Association.

DOPE BAG

☆ ☆ ☆

Conducted by F. C. NESS

THIS MONTH:

Stevens Scopes · Finishing a Stock with Oil · .357 Magnum Rifle · Seating Depth and Heavy Loads · Pistol Primers in the Hornet · How to Measure Caliber · Hornet or Swift?

OLD SCOPES. In a back issue of the RIFLEMAN an article, "The Bicycle Pistol," by W. E. Dancy, states, in part, "For example, consider the Stevens telescopic sight, which is of 12¼-inch length (barrel length). This is evidently an altered instrument, as the designation of No. 550 would indicate five and one-half magnifications, whereas this one is apparently around three diameters. It seems that someone has gone to the trouble and expense of having a new objective lens ground for this scope, in order to shorten it for this use."

In my collection of old gun catalogues I have a catalogue of "Stevens Rifle Telescopes" published, I believe, around 1907 or 1908. On Page 12 I find: "The 'New Model' Telescope" (followed by an illustration of gun and scope similar to the one pictured in the article, but without palm rest). "Showing 'New Model' Pocket Rifle and Telescope. These Telescopes were designed for the 'New Model' (Pocket Rifle). They are set forward of the hammer, and the rifle can be cocked without interference. The telescope has three inches eye relief, the correct distance from the eye when in a comfortable position to shoot. Has a large, flat field, well corrected, and is, indeed, a very superior glass. The mountings are similar to the 'Favorite' and interchange with the regular sights. Can be furnished with other mountings at additional list. Put up in ¾-inch tube.

No. 545, 3 Dia., 10½", for 10" rifle.
No. 550, 3 Dia., 12½", for 12" rifle.
No. 555, 3 Dia., 15½", for 15" rifle.
No. 560, 4 Dia., 18½", for 18" rifle."

From the above it may be seen that the No. 550 scope was originally made in three power and, also, that the scope numbers bore no relation to their magnification. The list of each was $10.00 with mountings.

A regular Stevens Catalogue of about the same period refers to the above gun, without scope, as, "Rifle—Stevens New Model Pocket or Bicycle, No. 40." On the next page it is pictured with vernier peep sight on the grip and referred to as "Rifles—Stevens Vernier New Model Pocket, No. 40½."

A much older Stevens Catalogue, undated, but printed before the advent of the Ideal Rifle, shows, "Vernier New Model Pocket Rifles," similar to the No. 40½, except that the gun has a Sheath Trigger. Pocket Rifles and Hunters' Pets are also shown in a catalogue of G. W. Turner & Ross, Boston, Mass.; catalogue dated 1880.—HAROLD D. ALLYN.

.25 STEVENS H. V. I am much interested in the information given in your magazine regarding the recent developments in the efficiency of .22 rimfire cartridges. A good many years ago I owned a Stevens Ideal rifle using the .25 rimfire, but I have seen no reference to it lately. Have there been corresponding improvements in the efficiency of the latter cartridge?—F. G. R.

Answer: About two years ago we fired some of the new .25 Stevens Rim Fire High Velocity experimental loads, which the makers never felt free about marketing because there are too many inferior rifles which would be damaged by such ammunition. They worked perfectly in our modern arms and gave fine accuracy and flat trajectory and good killing effect on small game. However, they will probably be shelved indefinitely as dangerous to owners of old or defective arms in this .25 Stevens caliber.

STOCK FINISH. I have taken a desire to refinish my rifle stock with boiled linseed oil and would like to know how to do this properly. Will you please let me know how to begin, when you get time to write me?—A. S.

Answer: I have your card and note that you are willing to do a lot of work on refinishing your rifle stock.

In outline your first chore will be to use some varnish remover on your old finish or to scrape it down with glass or a carpenter's steel scraper. When you get down to a hard, smooth finish, using steel wool and graduated grades of sandpaper from coarse to fine, you will be ready to test it for feathers or raising grains. To do this with the wood you either use a very warm room or you mildly heat the rifle after covering it with wet cloths or after wetting the surface to raise the grain. As you heat it you also dry it and when the grain rises you sand it down smooth again and try once more until it will no longer erect the small fibers of wood.

Now after drying it you are ready to apply the oil. If you have a tank you can soak it, otherwise you can put on liberal quantities and let it stand for at least 24 hours and maybe longer until it dries. Then you rub it all down again to the wood and give it another coating. The second time you do not put on as much. You merely want the wood to take up all it will take. In order to get it to take more the first time you could use one-third turpentine in your oil. About the third time you can apply it with your hand and rub it in. The second time you can rub it down with pumice stone or rottenstone. After the third time it will be merely putting a few drops on each time you clean your rifle and rubbing it with the palm of your hand until it gets warm. This is a hell of a tough job, and unnecessary in my opinion, but it will result in a nice finish, but its principal advantage is that it will give you an excuse for petting your gun.

If you want something quicker and better I would suggest that you get some Stewart-Valentine stock finish and apply it in place of the linseed oil according to directions. It will result in a better finish I think and in much shorter time. The Stewart-Valentine Co. address is 234 Faxon Avenue, San Francisco, Calif.

TRAJECTORY. Am writing to ask whether or not the .30-'06 U. S. Army rifle with a star-gauged barrel will shoot 200 yards accurately without raising the sights. I also would like to know if a bullet arches any from 50 yards up to 200 yards or whether the bullet goes on a perfectly straight line.—H. N.

Answer: The .30-caliber Service bullet, as fired from the Service Springfield rifle, or any .30-'06 caliber sporting rifle, drops 10 inches over the first 200 yards from the muzzle, and it drops nearly half of this over the first 100 yards of travel. Thus, the barrel of the Springfield must be pointing 10 inches above the mark at 200 yards, or the bullet will drop below it. In other words, it requires an angle of elevation of 5 minutes, or 10 inches at 200 yards.

The path of flight, or the trajectory, of any bullet is always in a curved line as it falls away from the line of bore as soon as it emerges at the muzzle, due to the pull of gravity. The line of sight is straight, and because the muzzle is elevated, the bullet passes through and above the line of sight and finally drops back through and below the line of sight at longer range because of its curve, which is always from the muzzle and below the extended line of bore, regardless of its relationship to the line of sight.

RELOADING CAUTIONS. I have an Ideal No. 5 powder measure and there is a graduation on the steel cylinder slide that puzzles me. It runs from ½ to 5 by ¼ graduations and is marked with the letter "D." The other graduations on this slide, are from 20 to 140 by 5's and it is marked with the letter "G." The graduations on the curved brass slide run from 0 to 15 inch, by 1's and from 10 to 50 by 2's.

I have been handloading for the .22-3000 R-2 Lovell, using 17 grains 4198 and 46-grain Western hollow point, in a 26-inch, 16-inch-twist barrel that was made for me by a local gunsmith, Mr. Del Johnson of 109 F Street, Eureka, California. I have been making 1½ inch, 10-shot groups at 200 yards with this load, and it works well on our coast black-tail deer. Better than rifles of .30-30 class, but it takes this particular bullet to do it. I have tried the 50-grain Sisk-Lovell and 45-grain, Remington, hollow-base, hollow-point and Western soft-nose bullets without much success on target or game, although the Remington bullet will stay inside of 2½ inches at 200 yards.

I have also been loading 12 grains 2400 in the M-54 Hornet with this 46-grain Western bullet, with good accuracy, and nearly as much wallop as the Lovell. This rifle has a badly eroded throat and I cannot see much difference in pressure signs between the handloads and factory loads. What velocity would you guess that I am getting with this load? Also what velocity will 16 grains 4227 give the 60-grain, .25-20, Western, hollow-point bullet in a M-23 Savage? This load works O.K., but is hard on cases in that oversize Savage chamber. Knocks the heads off in about 5 or 6 loadings.

What load and bullets would you recommend for a heavy load in a .32 S. & W. Long with 6-inch barrel? How about King's Semi-Smokeless in this gun? Also what brand of cases, etc.?

Would also like to have a comparison between .45 Long Colt and .44 S. & W. Colt revolvers, as I can't decide which one I want from all the dope I have.—L. W. S.

Answer: Before using that Ideal No. 5 powder measure I would suggest that you get a scale sensitive to ⅒th grain, or at least to ¼ grain, and check the graduations so that you will be getting the load you want by actual weight. This is true of all powder measures, and it should be done. For a normal load, somewhat under maximum, the measure then can be used with confidence by arbitrary setting. However, even such adjustments which have been predetermined should be checked on the pan of a powder scale to be sure that something has not slipped.

From your description I would assume that the cylinder part marked "D" and graduated from ½ to 5 is in dram units, for bulk powder, while the other one marked "G" is in grain units, as is the curved slide marked from 0 to 15. This latter corresponds with the "D" slide and will throw black-powder loads from 0 to 15 grains weight. It will also throw Pistol Powder No. 5 from 1 grain to 8.5 grains when set on 2 and 15, respectively.

I imagine the throat erosion in your .22 Hornet

has resulted in a free-bore or free-travel effect so that you are getting lower pressures in that chamber to permit the use of an abnormally heavy charge of powder. At the same time you may be getting normal pressures and velocities, although I would guess you are slightly above both. The normal maximum load of 2400 powder is 10.3 grains behind the 45-grain bullet which gives 2600 f.s. at 42,000 pounds pressure.

In the .25-20 Repeater the maximum load of 4227 powder behind the 60-grain bullet is 12.7 grains which gives 2000 f.s. at normal maximum pressure which is 25,000 pounds. The equivalent maximum load with 2400 powder is 10.5 grains which gives about 2100 f.s. at 25,000 pounds pressure. Your load of 16 grains of 4227 is entirely too much for the M-23 Savage, and you can expect a very short life of cases and a short life for your rifle as well, because I would expect it to set back and quite rapidly increase its head space to the point where you will begin to get a separation between the head of the case and the body of the case.

The .32 S. & W. Long is an old black-powder case, but it is somewhat limited in capacity for the best results with black powder or King's Semi-Smokeless. With a 98-grain bullet the normal charge is 13 grains of fine black powder and an equal volume of FFFg Semi-Smokeless may be used. It is now loaded on the basis of 2.6 grains Pistol Powder No. 5 or 2.4 grains of Bullseye behind the same bullet. Our favorite load in the .32 S. & W. Long is 2.7 grains of Pistol Powder No. 5 behind the Bond-Ness bullet which is a combination field bullet and wad-cutter target bullet, for which molds are obtainable from Modern-Bond Corporation, Wilmington, Delaware. We use all makes of cases and have no choice so far in this caliber. George A. Hensley will make gang molds to order.

In the .45 Colt we prefer Remington cases, because the others have very narrow rims. The .44 Special is infinitely better for reloading in every way and I would recommend its choice. The .44 Special is not only easier to handle in reloading, but it is more flexible, more versatile, and more durable. In handloads it is probably more accurate and equally powerful.

.357 MAGNUM RIFLE. Here I am again for information. I want to have made a short, extremely light-weight rifle for deer hunting at ranges well under 100 yards. How would one with an 18½-inch barrel chambered for the 7.65 Luger O.P. high-speed cartridge work? Could even have an 18½-inch barrel put on a Luger pistol with stock. I believe they can be gotten. I have shot a Luger handgun some and the 7.65 seems to have good penetration on magazines or old thick catalogs. I now own 17 different rifles: .22 Lovell, .219 Zipper, 6.5 Mannlicher, .257 Roberts, .270 Winchester, .30-'06, .35 Remington and in between. But I want light weight so I can carry more movie-camera equipment and still crawl.—L. D. B.

Answer: I would not recommend the 7.65 mm. Luger for deer, even with an 18½-inch barrel. Your 6.5 mm. Mannlicher-Schoenauer is the best light-weight rifle you have and it is practical with 18-inch barrel. Your .219 Zipper with 56-grain bullet would be better than the .30-caliber Luger pistol, cartridge or caliber. Another bullet of the same weight would be far more effective and that would not be good enough in my opinion. I am referring to the 93-grain .410 bore rifled slugs now put out in 2½-inch cases by Winchester for shotguns. This is more effective and powerful than the Luger and we tried it in the Model-42 Winchester pump gun with telescope sight. We did not take it on our hunting trip after trying it on an 5/16-inch steel plate. On this plate it seemed less powerful than the .357 Magnum revolver which will not make any impression on this plate at 15 yards with 8¾-inch barrel.

However, we made a rifle with 18¼-inch barrel in the .357 Magnum caliber, and the Western factory ammunition and Peters factory ammunition with 158-grain lead bullet will penetrate the plate at 30 yards, but not at 35 yards. This is several times more powerful than the .410 gauge rifled slug or the 7.62 mm. Luger bullet which is entirely too small for deer. We had our rifle made up by Arthur Hubalek, 1167 Myrtle Ave., Brooklyn, N. Y., and he had to make all his tools for the first time in order to chamber and rifle it. I think, therefore, you could get a pretty favorable quotation by having him make you up a rifle in this caliber which would be superior to the one that you have selected. Our handload of 15¼ grains No. 2400 powder and the Bond-Ness .38 Special bullet will shoot through the same plate at 45 yards, but not at 50 yards in the 18¼-inch barrel. With this load we have had 2½-inch to 3½-inch groups at 100 yards. The factory ammunition will shoot into 3 inches at 100 yards and into about 6 or 7 inches at 200 yards. Our best handloads will do slightly better than this.

QUICK LIGHT STOCK FINISH. I have a beautiful gun stock of burl American Walnut that I want to finish and am asking your suggestions for finishing products.

I don't like oil finishes, as they take entirely too long and also darken the wood too much, and, as the wood in this stock is already very dark, I want to finish it as light as possible.

Have you ever had any experience with tung oil finishes and do you think it would darken the wood as much as linseed oil?

Please give me the best dope you have and names, addresses, and price of products.—E. J.

Answer: In all our experience with finishing walnut and other woods we have found there is only one way to overcome the darkening tendency of oil and that is to fill the pores with a weak solution of varnish and turpentine. This can be the cheapest varnish obtainable. It is put on only for a day and then rubbed down to the surface of the wood and then oil put on top.

For a lighter finish use the Mashburn stock finish which we have tried, and believe it contains some varnish or shellac or similar filler which gives about the same effect, but even better. It is one of the best stock finishes we have tried. The address is, Arthur Mashburn, Denver (see his ad).

For a still lighter finish and one as good as the best stock finish we have ever tried, I would suggest Stewart Valentine's stock finish. The address is, Stewart Valentine Company, 234 Faxon Ave., San Francisco, Calif. This is very similar to the Mashburn stock finish, but seems to leave even a lighter color. The three methods mentioned above show up the grain well.

SEATING DEPTH, LOADS, ETC. In the RIFLEMAN of June, 1941 you had some dope on "free-boring" or "relief boring" of rifle barrels as practiced by Ralph Waldo Miller, of this community. Have you had any further dope on this process? Is it proving out as well in practice as it did in theory?

I have frequently heard the criticism of the 7 mm.—and particularly by gunsmiths—that the long throat of that rifle necessitated by the length of the 175-grain bullet militated against its successful and wholly satisfactory use with the shorter bullets. If that is true then it would seem to me that this fault (if such it actually is) would be greatly magnified by having a barrel free-bored. Or is this just another superstition in which one so frequently finds our best gunsmiths indulging themselves? I have found that when even the best of them is confronted by something he does not entirely understand he is inclined to resort to the primitive by calling up a very passable substitute for black magic, etc. It just seems to be impossible for him to admit that there might be a few things that he doesn't know all about. So, for that reason, I am calling on you for correct information on this matter in which I am very much interested.

I have two .257 caliber M-70's—one for the wife, in the 20-inch barrel length and trimmed down for a woman—and if this free-boring is successful I'd have the operation performed on both of them. My object would be to get just a little more velocity out of the 100- and 117-grain bullets—or the present listed velocities of Hivel (3070 and 2870, respectively) with complete safety. Personally, I think this .257 is the greatest and best all-around caliber what am, but it could have just a wee bit more velocity and would be even better yet (and I make this claim for the .257 as a reformed .30-'06 shooter who has seen the light after having been kicked by several thousand rounds of Service ammunition). So, as I said before, if this little baby can be safely stepped up "yust a smidgeon" I'd be perfectly content.

I have, also, a .38 S&W Outdoorsman. My mold is one I had made for the .38 Super before I quit shooting automatics (after dern near getting a hand blown off when she went off unexpectedly as I let the slide slam down while single-loading) and casts bullets of 125 grains. I have the Hercules booklets on Bullseye and Unique but these are conservative loadings which are safe in any kind of .38. My gun will stand much hotter loads than are listed there and I wonder if you could give me some dope on a load of Unique capable of around 1300 fs. or so with the 125-grain bullet.

Hercules listed all their loads by "Seating Depth" of the bullets. This is very important in fast stuff, particularly for the rifles, but what I'd like to know is 'ow in 'ell does one measure that seating depth of .301 for the 100-grain bullet and .437 for the 117? How can a "mike" be used in this measurement? I can't do it. Dupont lists it in over-all length: 2.75 inches. Is there any objection to using the over-all measurement for Hercules Powder?—M. H. C.

Answer: I have your letter of March 27 asking about free boring and other matters. While I consider free boring successful in general and exceptionally so in individual cases, I am not prepared to recommend it. I know from experience that it does not always work out as an improvement, but on the other hand it does not seem to affect the shooting adversely even when it fails to help and it almost always permits heavier loads or gives lower pressures with the same load. Apparently, it works best with a high-velocity light-weight bullet which is too short for the normal throat and in a fairly tight or snug-fitting combination of bore-and-bullet diameter.

You bring up an interesting theory, because it is well known that the 139-grain 7 mm. bullet is not as accurate in the standard rifle as the 175-grain bullet for which it is throated. However, this might mean that the 175-grain is a better bullet, although the matter of bullet jump might be involved. However, and in spite of the old theory about the long jump of the 150-grain pointed bullet in the Krag throat for the old blunt-nose 1903 220-grain bullet, I have had some of the best accuracy in the Krag with the short, pointed bullet and its slender ogive which forced the bullet to make a definite jump before becoming seated in the rifling. I also followed this out with the M1 Service boattail bullet and got better accuracy when I seated them deep and let them jump. I had a fine-shooting Krag when so loaded and a very ordinary one when loaded according to the best theories of throating and bullet-fit or nose-contact in the throat. Here is one that is not logical, and this matter of free-boring may be involved in it.

With your 125-grain lead-alloy bullet in the .38 S. & W. Special Outdoorsman revolver the

maximum recommended load is 5.8 grains of Hercules Unique which gives 1100 f.s. and 15,000 pounds pressure with the bullet seated .325-inch deep. Now, if you are willing to go to 20,000 pounds pressure and slightly over, your maximum allowable charge would be 6.4 grains Unique using the same seating depth. You could gradually work up such a load from 5.8 grains if you have a very good powder scale and know your powder weight. The heavy load mentioned, in the 20,000-pound class, is a critical one and may jump unexpectedly to 30,000 pounds because of some change in components, loading, or what have you, and I mean inadvertently. Therefore, it is absolutely essential to use brand-new solid-head cases for such loads and not badly strained cases which have been fired several times or even new cases with the semiballoon heads. Some of these will work all right, but you may get some that will fail you.

To get that seating depth you could use several methods. You can measure the over-all length of your case very carefully either with a long mike, a vernier caliper or a steel rule graduated in 100ths of an inch. You can then easily change this into decimals or read it directly in decimals. You can easily mike the length of your bullets. Add these two lengths together for the combination length and then deduct .325 inch to get your over-all length for the proper seating depth. Another method would be to lay your mike on the mouth of the case and open it .325 inch, or to that reading. Then alien your eye with the face of the mike anvil and make a knife scratch on your case. You can do the same from the base of the bullet to the point at which the mouth should come and you would have the correct seating depth closely enough for all practical purposes.

PISTOL PRIMERS IN HORNET. Would you give me information on using pistol primers in place of rifle primers in .22 Hornet cartridges?—J. K.

Answer: I have your letter of March 23 asking about pistol primers in .22 Hornet rifle cartridges. Pistol primers of the small size (.175-inch) are of the same diameter as the small-size rifle primers and will fit the pockets correctly. Pistol primers are loaded with a different pellet or composition in a softer or thinner metal cup. Sometimes this leads to trouble in certain rifles because of punctures. However, this trouble usually does not develop. The only other obstacle is a change in ignition and usually you can adjust your powder charge for this. Pistol primers are designed for quick-burning powder and they usually do not work well with 4227, 4198 and sometimes not as well with No. 2400. They probably will work all right with No. 2400 in the .22 Hornet and they should work as well as anything with Hercules Unique, Shotgun Smokeless, No. 80 and perhaps better than rifle primers with the new S.R. No. 4759 powder. They will certainly work all right with pistol powders in rifle cases especially in cases as small as the .22 Hornet. You will have to be careful about using too much pistol powder in this small case, as even 4.0 grains of Bullseye develops maximum pressures of 40,000 pounds which is higher than many high-velocity factory loads. For lead-alloy bullets a good load is 3 grains of Unique.

CALIBER BY BORE OR GROOVE. Please straighten out the definition of "Caliber" for a confused Annual Member.

From "Guns and Gunning," Capt. Paul A. Curtis (pg. 381): "The caliber of the rifle is measured from its widest part, that is from the bottom of the grooves, the higher spaces between the grooves are known as lands."

From the New I.D.R. (pg. 170): "Rifling * * * the interior diameter of the barrel, between the lands, is 0.30 of an inch, called 'thirty caliber.'" ("between the lands" may be interpreted as the grooves or the distance between the lands).

From Western Ammunition Handbook: "Caliber * * * the diameter of the bore of a rifle, usually measured from land to land. * * *"—E. E. S.

Answer: I have your letter of March 23 asking about the bore and caliber of arms in general. The paragraph quotation from the Western Ammunition Handbook is correct, as the bore measurement is generally used. Caliber means the diameter, in 1000ths of an inch, the .250 savage having a .25-inch bore diameter which is measured from the top of one land to the top of the opposite land. The rifling is cut into this bore and below its surface in the form of grooves, and the bullet is of this greater groove diameter, or .257-inch. The .218 Bee, .219 Zipper and .220 Swift all signify bore diameter. In similar calibers the groove diameter is sometimes used for designating the caliber, examples being the .257 Roberts and .357 Magnum.

HORNET OR SWIFT? I am writing to you for some advice on selecting a rifle for chuck and crow shooting. In the past I have used the Springfield with factory 110-grain ammunition, but this combination is entirely too powerful for the work at hand. I seldom take shots much over 200 yards as I usually miss at longer ranges. After reading all the articles published in the last five years in the RIFLEMAN on this subject I am about as much at sea as ever. It appears to me that the .22-3000 Lovell as designed by Lovell is ideal, but I do not care to purchase a gun that factory ammunition cannot be obtained for. Is this caliber going to be produced commercially in the next four or five months?

There is such a divergence of opinion among the experts on the "Hornet" and its change of impact that I hesitate to order one due to the fact that I have not the time or opportunity to carefully sight in a gun every time I use it, nor the patience. Does the .220 Swift have this characteristic also? As things now stand the choice is apparently between the Hornet and the Swift unless something new is coming along soon. The .218 Bee and .219 Zipper are available only in lever-action repeating rifles.

The sighting equipment will be the 18-inch 4X Fecker small-game scope with click mounts. I have been using this scope on the Springfield. This district is fairly well settled and in some sections the farm houses are rather close together. With these conditions will you kindly give me your recommendations as to the choice of a rifle? Thanking you in advance, I remain.—J. H.

Answer: When the .22 Hornet rifle changes its zero, it is probably a bedding fault, but many times I believe it is caused by outside air currents or wind deflection. When a telescope sight is not used it may be a difference in vision or in light conditions. At any rate, for certain purposes we prefer our .22 Hornet above all rifles. For shooting small groups on targets at 100 yards, we have found nothing better than our Model 54 Hornet. For use on small game up to 150 yards we would prefer it above all others and especially in settled communities. Between 150 and 200 yards you will lose an occasional shot on account of wind.

Here is where the superiority of the .22-3000 Lovell manifests itself. This year we are going to use the .22-3000 Lovell for our chuck shooting. Last year we used the .220 Swift and were perfectly satisfied with it. It is especially fine for a long shot, beyond 200 yards. If you want to use factory ammunition the .22 Hornet is your only choice. If you do not want to shoot beyond 200 yards, you do not need the .220 Swift. We fired 1,000 rounds of .220 loads in our rifle and it distinctly showed throat erosion, but the accuracy was still as good as ever when we sent it back to the factory. We considered it perfectly satisfactory and sufficiently powerful for deer, but it is an expensive caliber and not nearly as pleasant to use as the .22 Hornet and .22-3000 Lovell. Because our shooting is much like your own, or around 200 yards, we prefer to use the .22-3000 Lovell, which, however, requires custom loads.

AMMUNITION CHOICE. In a recent trip to Mexico I used Western 180-grain ammunition on the Whitetail deer found in that country. It stopped the deer OK and made a large wound, but in most instances opened up so much that there was not much penetration. This indicated to me that this load would be poor for larger game such as moose, elk and big bear, etc. As I intend to make some trips for this larger game, and I hoped to shoot only one particular cartridge in this gun, it looks like I had better change to the 220-grain Western Pin Point or the Peters Belted 225-grain, and then use this (with its poorer trajectory) even on smaller game, etc. The only other alternative would be to find a 180-grain load with smaller soft-point or possibly the open-point bullet. What would you suggest as a single load I should sight in this gun for and use continually when using the gun primarily for bear, elk, moose and deer (also possibly sheep and goat)?

Another point I would like a suggestion on is the trouble I had with the extra 180-gr. Soft-Points (Western) upsetting in the magazine, due to recoil I think but possibly also the jarring up and down in saddle scabbard, etc. I would shoot twice and then refill the magazine. By night, the bottom four cartridges would have the round lead soft points smashed down quite flat, which I believe would hurt the accuracy and make them open up faster.

Also please advise me for use in my late 6½-inch Woodsman, what difference if any in range and killing power, I would get in using Hi-Speed over regular ammunition. I have used regular, thinking that there was almost no advantage in Hi-Speed in a 6½-inch barrel.—E. H. G.

Answer: I think one of the best compromise cartridges for all purposes in the .30-'06 is the Western 180-grain open-point Lubaloy which develops around 2700 f.s. This cartridge has proven effective on our very largest American game even up to 400 yards and also on our smallest deer at comparatively short ranges. If your chief interest is big game, I think you could do as well with the Peters 225-grain Belted Bullet or the Western 220-grain pin-point boat-tail bullet. Both of these will prove effective on deer, although they are better adapted for heavier game. While you will have more trajectory, you will have better accuracy at long range as these are our two most accurate .30-'06 caliber cartridges. We now have also the effective Remington Core Lokt series of cartridges and the newer Silver Tip series in W-brand.

Relative to your other question, there are several types of high-velocity loads in the .22 Long Rifle cartridge. Many of these are loaded with a powder having the characteristics of Hercules 1300 such as some Remington Kleanbore Hi-Speed and Super-X. Ordinary Remington Kleanbore is loaded with duPont No. 93 Smokeless Sporting Rifle powder which was originally loaded in Super-X shotgun loads. The very best Hi-Speed load to use in short-barrel arms is Remington Palma Hi-Speed which is loaded with the same duPont No. 93 powder, as it is quicker burning and develops higher velocities in short barrels. In your 6½-inch Woodsman the different cartridges would compare about as follows: Lesmok, 900 f.s.; Kleanbore, 925 f.s.; Kleanbore Hi-Speed, 950 f.s.; Super-X, 1080 f.s.; Palma Hi-Speed, 1160 f.s.

As regards point-battering of the bullets, this will not happen with any of the .30-'06 cartridges I have named.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising and might result in disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an open market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All classified advertisements must be accompanied by remittance. The rate is 15 cents per word including name and address—minimum charge $2.00.

5. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H.B., meaning heavy barrel; HP., meaning highpower). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

6. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—except that the phrase "write for catalog" may be used when listing real estate or merchandise in quantities.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid," as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

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10. Requesting Privilege of Examination: Purchasers desirous of examining merchandise before acceptance should request shipment by express C.O.D. with examination privilege. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorized the express company to return unsatisfactory merchandise at shipper's expense.

11. OPA Ceiling Prices: An agency of the Federal government has legally fixed the prices of various commodities, including dealer and individual sales of ammunition (except handloads), and firearms, both new and used, except guns personally owned by individuals, acquired for their own personal use. Attempts to evade ceiling prices are violations of Federal statutes. It is physically impossible for us to ascertain whether or not firearms advertised in the Arms Chest are "personally owned" or to check advertised prices against legal ceiling prices. This is the responsibility of the advertiser, and advertisements offering to buy or sell merchandise at higher than legal prices will, when called to our attention, subject the advertiser to the penalties mentioned in paragraph 1.

12. Federal Explosives Act Defined: Under the Federal Explosives Act of 1941 all buyers, sellers, and possessors of gunpowder (not complete cartridges) must be licensed. Explosives licenses are usually obtainable from county court clerks. Purchasers must submit such licenses or a certified copy thereof to the seller at time of sale.

13. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These included machine or submachine guns; sawed-off rifles and shotguns with barrels of 18 inches or less, and Mauser and Luger auto pistols *with holster stocks.*

14. Responsibility for Illegible Copy: Type or print advertisement plainly, as we can not be responsible for errors due to illegible writing.

15. Closing Date: The closing date of all advertisements is the 5th of the month preceding month of issue.

FOR SALE

FOR SALE—BROWNING OVER-UNDER LATE model, 30" full and modified, selective single trigger, raised level rib, Bradley, ivory sight, used very little, ship subject inspection, $135.00. Frank M. Harper, Jr., Box 1346, Raleigh, No. Car.

SEND THREE CENT STAMP FOR LIST OF MODern and obsolete cartridges. Kimball Arms Company, Woburn, Mass. tf

FREE! 8 PAGE BARGAIN SWAP LIST OF GUNS and other sports items, write today, describing guns, reels, rods, outboards, golf clubs, binoculars, scopes, radios, watches, etc., you have to trade (or sell for cash); receive our generous "Cash or Trade Offer" and the list by return mail, depend on America's biggest traders to get you what you can't obtain elsewhere. Klein's Sporting Goods, 504TE South Halsted, Chicago 7.

FOR SALE—30 SPRINGFIELD AS ISSUED, GOOD outside, bore rough, 20 shot magazine, $40.00, .45 automatic M1911, reblued, slight roughness in bore, extra magazine, $35.00, Hi-Standard .22 long rifle, 4½" barrel, model B, very good to excellent, 3 extra magazines, $45.00, .30 Luger, 4" barrel, very good, $50.00. A. T. Van Valkenburg, 228 Lafayette Ave., Collingdale, Penna.

FOR SALE—300 SAVAGE, PERFECT, CASE, 40 shells $80.00. Want .410 empties. Francis Yonker, Mantua, Ohio.

FOR SALE—CUSTOM .257 ROBERTS, MAUSER action, 440 Weaver scope, Turner mount, some ammunition, excellent $225.00. 38-55 Winchester high side, D.S.T., #4 barrel, scope blocks, offhand buttplate, one small spot blue off, excellent 5 boxes ammunition cases, reloading tool and mould combined, adjustable mould, $75.00 plus excellent Sharps-Borchardt action, no telegrams. Woodrow Hoover, Canal Winchester, Ohio.

FOR SALE—HIGH GRADE FRANCOTTE 12 GA. 28" full choke barrels, half pistol grip stock, weight 6 lbs. 14 oz., fine engraving all over frame, action and breech of barrels, best grade leather case, 100 shells, perfect, $340.00. Hudson, R-52 Warren St., New York.

FOR SALE—TWO NEW, NEVER FIRED, GRIFfin and Howe Mauser, one 7mm., 23" barrel, stock 13½x1½x2½, Lyman 48, five boxes cartridges, $210.00, other 30-06 24" barrel stock 13½, comb to miss bolt X2½, Lyman 48 low mounted All-Weather, G&H mounts, $300.00. F. W. Davis, 930 Hamilton Ave., Latrobe, Penna.

FOR SALE—SPRINGFIELD 1898 30-40 CALIBER, #402529, excellent, new ammunition, price $75.00. Kimber Stroh, Angola, Indiana.

SELL WINCHESTER HI-WALL 25-35 HEAVY 30 bbl., perfect bore, very good out, standard sights very accurate, three boxes shells, $65.00. Henry Webelhuth, Monica, Illinois.

SPECIAL—MEN'S WRIST WATCH STRAPS, genuine leather, $2.00 value, all widths, black or tan, 79¢ each postpaid, all leather combination wallet and pass case, tan or black, $1.00 each postpaid, forward money order. Leather Specialties, 1840 Gladstone St., Phila. 45, Penna.

FOR SALE—NEW SINGLE SPECIMEN CARtridges list #9 for the Collector, all previous lists cancelled. send 10¢ stamps, 7.65 Mauser and .32 Remington rifle cartridges, $2.00 per box, List beautifully decorated horns, stamp. Carl Metzger, 2305 Canton St., Dallas 1, Texas.

FOR SALE—.45 COLT AUTOMATIC CUSTOM reblue barrel good, $55.00. C. R. Hall, 320 Parrish, Paris, Illinois.

FOR SALE—L. C. SMITH OLYMPIC GRADE single barrel trap gun, excellent, $100.00, Gibbs custom made .22 target rifle, Martini action, micrometer sights scope blocks, good, $50.00. Fox Burns, 2245 No. 10th St., Terre Haute, Indiana.

FOR SALE—CUSTOM 30-06 SPRINGFIELD, Luger, interchangeable calibers, both barrels, B&L spotting scope, Lyman, Tru-Line, Pacific, Johnson & Naramour (rotary head) presses, excellent, good, $500.00. Separate prices. Attorney Goldberg, 410 Asylum St., Hartford, Conn.

FOR SALE—SMITH & WESSON SAFETY HAMmerless, 32 caliber, 3½" barrel, very good in, no erosion or pits, nickel slightly worn, splendid shooter, ideal for pocket or ladies purse, with 75 cartridges, $15.00. Fecker 6 power X1½, click mounts, medium cross hairs, dust caps, optically perfect, bluing worn slightly, $40.00, will express examination privileges, member. Henry W. Holdorf, Toronto, Iowa.

FOR SALE—COLT SHOOTING MASTER, .38 Special, excellent, 6" heavy tapered barrel, box cartridges, $80.00. Archie Fisher, Montville, Conn.

OUR LIST OF MODERN ARMS WILL BE SENT on receipt of three cent stamp. Kimball Arms Company, Woburn, Mass. tf

BIG 1945 ILLUSTRATED LIST OF FIREARMS for collectors and shooters, price 50¢. The House of Guns, Alpine Place, Arlington, N. J. 7-45

TARGET SCOPES, HUNTING SCOPES, SCOPE mounts, reloading tools, powder, bullets, latest Ideal handbooks, postpaid 50¢. Stamp for folder. Louis Rinquette, Grants Pass, Oregon. 8-45

GIANT CHINCHILLA RABBITS. VALUABLE fur, delicious meat, easily raised, pleasant pastime, tremendous demand. Small investment, large profit. Willow Farm, R82, Sellersville, Pa. tf

PATENT PROTECTION. INFORMATION AND Invention Record Free. Randolph & Beavers, 370 Columbian Bldg., Washington, D. C.

FOR SALE—COLT, REMINGTON AND OTHER cap and ball revolvers, all calibers, muzzle loading long guns, moulds and flasks, list 10¢ in stamps. E. C. Ward, 406 Wilcox Bldg., Los Angeles 12, Calif. 9-45

NEW CLASSIFIED RATE

EFFECTIVE WITH THE JUNE ISSUE the rate for classified advertising is 15 cents per word, minimum charge, $2.00; maximum number of words to one advertiser, 100. Name and address are included in word count and remittance must accompany the copy. This adjustment brings the classified rate more nearly in line with the display rate. Closing date remains the 5th of the month except that we reserve the right to limit advertising by publishing ads in the order received up to the limit of available space.

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We are now able to take on a limited amount of general gun work. No barrel work yet, but we have on hand, and are prepared to mount, the following:

Lyman Sights	Weaver Mounts
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Watch this ad for further information. Please do not send any guns in without first writing to us.

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We have just received a limited number of Pacific Reloading Tools. The dies are tool steel and complete for one caliber. The following calibers can be furnished:

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.257 Roberts	.300 Savage
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The price of these tools is $22.50 each, f.o.b. Dallas. Shipment will be by express, collect.

We have many other items in stock to help you carry on the shooting game. Write us your needs.

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Copper Jackets only, 42, 50, 55, 60 grain; 42, 50 grain Round or Sharp Point, $2.25 per hundred, postpaid; 65 grain 227, $2.50. Sample Free.
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FOR SALE—LARGE ASSORTMENT ANTIQUE firearms, swords, powder horns and flasks. Stephen VanRensselaer, Mt. Kemble Ave., Morristown, New Jersey. 8-45

THE REVOLVER TIMING RECORD—A 10 INCH RCA-Victor phonograph record, practice timed and rapid fire anywhere. By Yourself. Nothing to watch—just listen. For dry shooting, basement and outdoor ranges. One side 10 second timing, other side 20 second timing, plays on any phonograph. $1.50 postpaid. The Original Sight-Exchange, Box J, Paoli, Penna. 2-46

SPORTSMEN—OWN A LODGE, CABIN OR TIMbered site in Michigan's famous hunting and fishing areas, list free. Sportsmen's Realty, 414 Tussing Bldg., Lansing 7, Michigan. 7-45

FOR SALE—ANTIQUE AND OBSOLETE FIREarms for collectors bought and sold, always a fine stock on hand. The House of Guns, 34 Alpine Place, Arlington, N. J. 11-45

INDUSTRIAL PRODUCTS COMPANY, IPCO Reloading Lubricants, now at Box 14, Wakefield, Mass. tf

INDIAN RELICS, CONFEDERATE BILLS, coins, minerals, gems, fossils, crystals, illustrated catalog 5¢. 100 ancient arrowheads, $3.00. H. Daniel, Hot Springs, Ark. tf

REWARD—CASH OR GUNS FOR YOUR HELP in locating purchaseable Antique Firearms Collections. Prompt, honorable dealing. James Serven, Santa Ana, Calif. tf

FOR SALE—PARKER 12 GA. 30" FULL CHOKE, fluid steel barrels, single trigger beavertail forearm, ventilated rib, ten gold inlays, one silver inlay, factory reconditioned $350.00, Winchester model 53, 25-20, excellent inside and outside, Lyman 103 rear peep, Marbles' folding rear sight, sheared gold front sight, $75.00. Melvin Tietge, 1107 Macarthur, Bloomington, Illinois.

REVOLVERS, MINERALS, STAMPS, COINS, glass, Indian relics, catalog 5¢. Cowboy Lemly, Las Cruces, New Mexico. tf

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate, fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minnesota. tf

FOR SALE—20 SHOT MAGAZINE FOR 30-06 Springfield $5.50 postpaid. B. K. Wingate, 470 Parkway, Trenton, N. J. 8-45

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FOR SALE—BINOCULARS: LEMAIRE 8x10x12 power, case, good, $85.00, Rhodenstock 8 power, case, good, $35.00, Colt 32-20, Luger 7.65, good, $40.00 each, ammunition, 22 to 375 magnum. Ray Ferringer, Mayport, Penna. 7-45

RIFLE CLUBS' SPECIAL PRICES ON ALL OFficial N.R.A. Tournament Targets. T. G. Crain, 919 Millville Road, Altoona, Penna. 8-45

FOR SALE—1"x1" TARGETPASTERS 2 ROLLS 35¢, ⅝"x⅝" Targetpasters, 2 rolls, 25¢, black or white, in dozen lots postage free. Leo Babchin, Dealer in Police Supplies, P.O. Box 215, West New York, N. J. 7-45

GUNS, MODERN, ANTIQUE, ALL KINDS, AMmunition, loading tools and supplies. Geo. Brullesauer, 3957A Castleman, St. Louis 10, Missouri. 1-46

ILLUSTRATED 145 PAGE CATALOG OF Antique firearms and edged weapons 25¢. Robert Abels, 860 Lexington Ave., New York 21, New York. 1-46

SELL PERFECT 30-06 HEAVY BARREL HOFFman Eddystone, figured stock, 500 N.M.N.C. primers, vaver dial rear, globe front, $110.00, Winchester highwall .22 Hornet, perfect, Sedgley medium barrel, Weaver 29S loading tools 1000 NMNC primers, cases, bullets, mould, $95.00. Lache Corlis, 1330 State, Alton, Illinois.

FOR SALE—ZEISS DELTRENTIS 8X30 I.F., optically perfect slight wear, outside, $125.00, 27 power eyepiece B&L 65, $10.00, factory, stocks only, Winchester, 21, 12 ga. trap, burl, oiled pad, perfect $22.00, Model 70, Standard, $12.00, 52 old style $4.50, Remington 31, $3.50, model 11 $3.25, Sportsman 20 ga. stock, forearm, custom, $14.00, no checks, stamped envelope, life member. Joe P. Medinger, Box 987, Las Cruces, New Mexico.

SELL 2-R LOVELL, ON 44½ STEVENS DOUBLE set trigger, rebarreled, restocked, with 8x Winchester scope, excellent condition, $100.00. G. W. Parks, 130 Farragut Ave., Vandergrift, Penna.

FOR SALE—9 PAIRS NATURALITE SKEET glasses with sweat band, $9.75 new, 1 set Remington skeet traps, perfect with electric timer, $75.00 complete. Gabriel Pacciarelli, 1447 Neilson St., Utica, N. Y.

FOR SALE—16 GAUGE, THREE BARREL, 38-55 Chas. Daley 27", weight 6½, 1½x2½x13¾, mod. boring cheekpiece holder for 4 shells in stock box of rifle shells gun in fair condition, c.o.d. $155.00. H. J. Ferry, Birnie Rd., Longmeadow, Mass.

FOR SALE—WINCHESTER 351 AUTO, 2 MAGAzines, 15 rounds, case, very good, $60.00, latest Winchester Carbine 30-30 excellent in very good out, 20 rounds, $60.00, Winchester full magazine carbine 30-30 Marble tang sight very good throughout, 20 rounds, $45.00, Winchester 26" full magazine, octagon 30-30 excellent in, good out, $40.00, Marlin 30-30 half magazine 22" round barrel, very good throughout, 20 rounds, $40.00, Military Mauser pistol 7.63 90 rounds, holster, clip excellent, $65.00, Ranger 12x30 double 100 shells good, $30.00, no wires please. Jacob Luoma, Star Route 550, Marquette, Michigan.

FOR SALE—VERY GOOD MOULDED PLYWOOD cartop boat made by Taft Marine Woodcraft, 12 ft. 52 lbs., olive drab, two reed seats, built in carrying yoke, take motor up to 3 horse power, motor board and two spruce paddles., $100.00. Herman Smith, Ray, Indiana.

FOR SALE—SAVAGE .22 MODEL 5, WITH Weaver 344 scope, T mount, sling, 300 rounds, excellent, $40.00, 30-40 Krag model '98, 22" barrel, stock cut to sporter, 20 rounds, good, $25.00, money orders, Member. H. G. Klinger, R.D. #1, Walden, N. Y.

FOR SALE—30 EAGLE LUGER, 5" BARREL, bore perfect, outside good, few shells, new, stamped holster $55.00, 88 Mauser carbine, bore good, as issued, no clips, $25.00, 95 Mannlicher, straight pull, carbine, bore good, as issued, no clips, $22.50, 11mm. 71 to 84 Mauser carbine, fair to good, stock cracked, Serviceable $17.50, new Remington M.L. rifle, 58 caliber 33" barrel, solid bronze, minnie ball mould, both $35.00. Member, Paul Snare, Holden, Missouri.

FOR SALE—WINCHESTER 52, STANDARD #35756, Marble-Goss extension, 17A, sling, new case, 100 Kleanbore, excellent, $85.00. W. R. Warner, 25 Grove, Medford, Mass.

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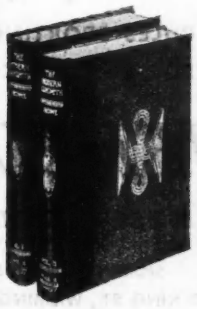

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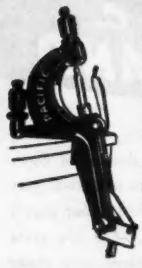

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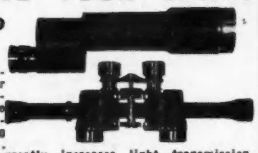

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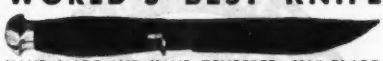

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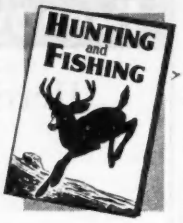

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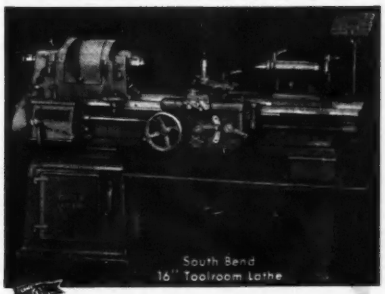

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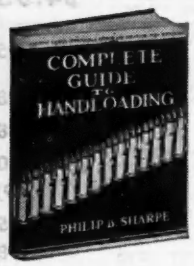

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CUSTOM BUILT, ENGRAVED MAUSER 30-06 Sporter, Griffin and Howe barrel, excellent, 100 cartridges, $250.00, fancy engraved, fluted barrel, relined Martini Hornet, big Busch 2½X scope in custom bridge mount, Schuetzen butt and finger lever, four limb set trigger, excellent, 100 cartridges, $200.00. Two excellent .455 Bisley flat-tops and two excellent target Russians in very good, brass bound oak case, $250.00, very good .41 volcanic, $40.00, Leica "Valoy" enlarger with Leica 3.5 lens and easel, excellent, $110.00. Cased .40 Cane Air gun outfit, excellent, $65.00. T. B. Gresham, Salem, Virginia.

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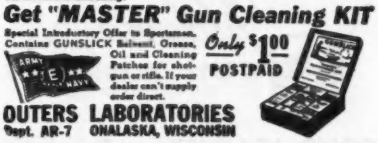

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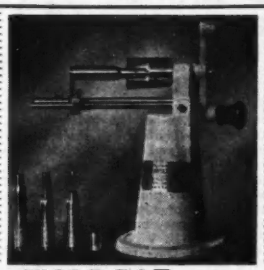

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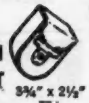

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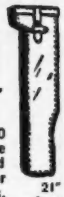

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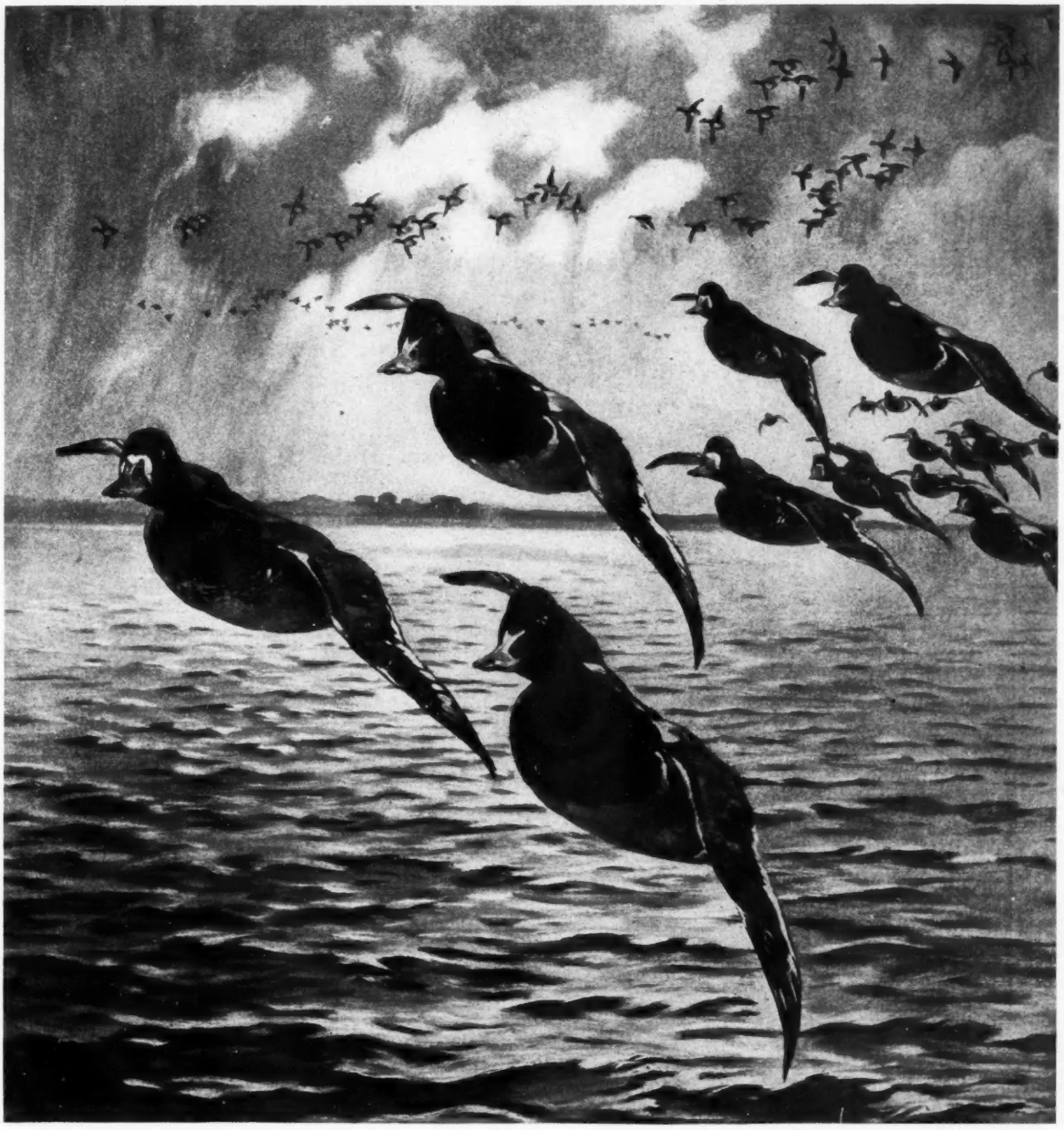

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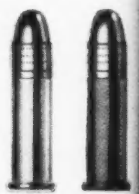

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